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WATER QUALITY
INSTRUCTIONAL RESOURCES INFORMATION SYSTEM
(IRIS)

A Compilation of Abstracts
to Water Quality and Water
Resources Materials

Compiled by the staff of the
EPA Information Dissemination Project
SMEAC Information Reference Center
1200 Chambers Rd., 3rd Floor
Columbus, Ohio 43212

U. S. ENVIRONMENTAL PROTECTION AGENCY
Office of Water Program Operations
National Training and Operational Technology Center
Cincinnati, Ohio 45268

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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Phone: 614-422-6717

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The EPA Information Dissemination Project (water) acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the EPA Information Dissemination Project is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the material is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this compilation, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EPA Information Dissemination Project at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) Collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of this compilation and similar ones to follow and (2) by computer.

The first compilation will contain resumes of selected materials processed for the previous IRIS (water) collection and resumes of selected materials of items added to the IRIS (water) collection during the past year. A limited number of copies of the compilation in paper copy and microfiche will be available free of charge as long as the supply lasts from the EPA Information Dissemination Project. After the free copies of the compilations are gone, copies will be available for purchase from the EPA Information Dissemination Project.

Quarterly updates of the compilation will be available by subscription on a yearly basis beginning in September, 1979. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EPA Information Dissemination Project. A subscription to the quarterly supplements for 1979-80 will be $12.00 (within the U.S.). Price to Canada is $14.00. Prices in other countries is $20.00.

This compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched by both batch and on-line computer searches. The IRIS tapes are available for purchase from the SMEAC Information Reference Center. In addition, the IRIS tapes are available for searching through the Bibliographic Retrieval Services, Inc., (BRS). Any search service that currently subscribes to BRS is able to search the IRIS data base by on-line techniques. Individuals or agencies with computer terminals and telephone connection equipment can subscribe to BRS and do their own searches if they desire. Current plans are to update the IRIS tapes every three months.

Information regarding BRS may be obtained by writing or phoning BRS, Corporation Park, Building 702, Scotia, NY 12302, (518) 374-5011.

Plans are being made to mount IRIS tapes with other on-line vendors. Information regarding this service will be announced in a future EPA IRC Bulletin and in mailings from the EPA Information Dissemination Project.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not contact the EPA Information Dissemination for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but most users of the tapes gain access

to them through three major database vendors, Lockheed (Dialog), Systems Development Corporation (Orbit), and Bibliographic Retrieval Services. For the addresses of search services in your state that can search these databases, contact the:

EPA Information Dissemination Project
1200 Chambers Rd., Room 210
Columbus, Ohio 43212

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EPA Information Dissemination Project for 3¢ per page + $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EPA Information Dissemination Project.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
3930 East Camelback Road
Phoenix, Arizona 85018

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. Current prices are $6.00 for articles published before January 1976 and $4.00 for articles published after January 1976. For further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106

II. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered in ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered into ERIC

   a. IRIS NUMBER: EW003059
   b. PUBLICATION DATE: 1978
   c. TITLE: WATER POLLUTION MICROBIOLOGY, VOL. 2
   d. PERSONAL AUTHOR: MITCHELL, RALPH
   e. DESCRIPTOR: BIOCHEMISTRY; *COLLEGE SCIENCE; DISEASE CONTROL; ECOLOGY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; NATURAL RESOURCES; *POLLUTION; *PUBLIC HEALTH; *WATER POLLUTION CONTROL; WATER QUALITY

   f. DESCRIPTIVE NOTE: 442P.
   g. ABSTRACT: THIS VOLUME CONTAINS INFORMATION FOR ENVIRONMENTAL AND SANITARY ENGINEERS, PUBLIC HEALTH SCIENTISTS AND MICROBIOLOGISTS CONCERNED WITH WATER POLLUTION. IT EXAMINES MICROORGANISMS AS CAUSITIVE AGENTS OF ECOLOGICAL AND PUBLIC HEALTH HAZARDS IN NATURAL WATERS, AND TREATS THE USE OF MICROORGANISMS IN POLLUTION CONTROL FROM A VARIETY OF PERSPECTIVES. (CS)

   h. AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, NJ 08873 ($24.95)

   a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

   b. PUBLICATION DATE -- date material was published according to information on the material.

   c. TITLE

   d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

   e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

   f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained and the price of the material quoted the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

2. Sample resume of material entered into ERIC (Resources in Education)

Item entered into ERIC (Resources in Education) will have a few additional data fields.

IRIS NUMBER: EW002998

a. ERIC NUMBER: ED151236
PUBLICATION DATE: SEP 77
TITLE: CHLORINATION. TRAINING MODULE 2.300.2.77.
INSTITUTION CODE: BBB08399
SPONSORING AGENCY CODE: BBB15379; FGK21436
DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; *CHLORINATION; *WASTE WATER TREATMENT; WATER TREATMENT

b. EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE
DESCRIPTIVE NOTE: 60P. FOR RELATED DOCUMENTS, SEE SE 024 025-046

c. ISSUE: RIEJUL78
ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH CHLORINE. THE REASONS FOR CHLORINATION AND SAFE OPERATION AND MAINTENANCE OF GAS CHLORINE, DRY CALCIUM HYPOCHLORITE AND LIQUID SODIUM HYPOCHLORITE CHLORINATION SYSTEMS FOR WATER SUPPLY AND WASTEWATER TREATMENT FACILITIES ARE GIVEN. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS PURPOSES OF CHLORINATION, PROPERTIES OF CHLORINE, METHODS OF CHLORINATION, SAFETY, MAINTENANCE OF CHLORINATION UNITS AND INTERPRETATION OF TEST RESULTS. (AUTHOR/RH)

d. INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.
SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can also be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
P.O. Box 190
Arlington, Virginia 22210

Telephone: 703-841-1212

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EPA Information Dissemination Project.

c. ISSUE -- this indicates the monthly issue of Resources in Education in which the resume appeared.

d. INSTITUTION NAME -- organization where document originated.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index, Author Index, Institution Index, or Title Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to laboratory techniques and to wastewater treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

2. Author Index and Institution Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author. These documents are listed under the name of the institution or organization responsible for developing the document in the Institution Index. Both sources can be used to help you locate documents.

3. Title Index to the IRIS Compilation (Not included in the compilation)

The Title Index to the IRIS Compilation is a separate document. It is available from the EPA Information Project for $5.00 prepaid or $5.00 plus postage if invoiced. Supplements will be available on an annual basis for $5.00 beginning in August, 1980.

The Title Index contains all titles in the compilation listed in alphabetical order. If you are searching for material and know the title, you can check the title list to determine if the item is in the IRIS data base. Each title includes the IRIS resume number. The number can be found in the resume section of the compilation.

III. Samples of Search Requests

This section provides several suggestions for manual use of the compilation. Suggestions for computer searches are in a different section.

A. Samples of Searches Using the Subject Index.

1. How can I locate materials related to valves?

a. Turn to valves in the subject index.

b. Locate the EW numbers listed under valves. See sample of a partial listing included below.

*VALVES

(18)	EW000085	EW000089	EW000090	EW000265
EW000266	EW000286	EW000287	EW000967	EW000968
EW000969	EW000970	EW001165	EW001648	EW002004
EW002005	EW002015	EW002016	EW002237	

c. Entries listed after *VALVES are entries that are certain to have substantial information related to valves. Example: EW002237 Entries listed after VALVES (no asterisk) will include information on valves, but may not have as much as those listed with an asterisk. Example:

d. Locate the resumes in the resume section. An example of one resume, EW002237, is listed below.

IRIS ACCESSION NUMBER: EW002237

PUBLICATION DATE: 75

TITLE: LYONS ENCYCLOPEDIA OF VALVES.

PERSONAL AUTHOR: LYONS, J. L.; ASKLAND, C.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: 290P.

ABSTRACT: PROVIDES INFORMATION ESSENTIAL TO PROPER DESIGN, MANUFACTURE, SELECTION, PURCHASE, INSTALLATION, USE, MAINTENANCE, AND SIZING OF VALVES AND RELATED FLUID CONTROL DEVICES. THIS INFORMATION IS BACKED UP WITH OVER 100 PHOTOGRAPHS OF VALVES AND COMPONENTS SUPPLIED BY MANY OF THE COUNTRY'S MAJOR MANUFACTURERS.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($18.95)

e. Determine the availability of the material. The resume for EW002237, is listed on the previous page. The AVAILABILITY section indicates the material can be obtained from, VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($18.95).

2. Question

How can I find training materials which consider maintenance procedures for pumps?

a. Search Strategy

Locate the entries in the subject index listed by maintenance. See sample of a partial listing below.

*MAINTENANCE

(59)	EW000026	EW000028	EW000029	EW000037
EW000103	EW000104	EW000119	EW000121	EW000127
EW000261	EW000271	EW000272	EW000280	EW000287
EW000291	EW000302	EW000303	EW000322	EW000528
EW000529	EW000533	EW000967	EW000968	EW000969
EW000970	EW001162	EW001164	EW001165	EW001166
EW001340	EW001469	EW001491	EW001649	EW001652
EW001653	EW001655	EW001838	EW001839	EW001840
EW001843	EW001869	EW001871	EW001872	EW001876
EW001883	EW001884	EW001888	EW001889	EW001890
EW001892	EW001893	EW001895	EW001896	EW002015
EW002035	EW002419	EW002811	EW002812	EW003781

MAINTENANCE

(40)	EW000013	EW000116	EW000140	EW000141
EW000239	EW000240	EW000241	EW000242	EW000243
EW000244	EW000245	EW000246	EW000247	EW000248
EW000253	EW000257	EW000258	EW000259	EW000260
EW000268	EW000290	EW000323	EW000510	EW000530
EW000532	EW000611	EW001112	EW001158	EW001387
EW001494	EW001644	EW001645	EW001646	EW001870
EW001873	EW001874	EW001875	EW001880	EW001887
EW002800				

b. Locate the entries in the subject index listed by pumps. See sample of a partial listing below.

*PUMPS

(16)	EW000105	EW000252	EW000265	EW000271
EW000272	EW000530	EW001648	EW001839	EW001875
EW001876	EW001880	EW001883	EW002378	EW002419
EW003787	EW003823			

PUMPS

(6)	EW000028	EW000038	EW000141	EW000512
EW000517	EW002896			

c. Check the EW numbers under pumps that are also listed under maintenance. Compare all numbers under pumps to all numbers under maintenance.

For example, EW002419, is listed under both.

d. Locate the resumes in the resume section. An example of one resume, EW002419, is listed below.

IRIS ACCESSION NUMBER: EW002419

PUBLICATION DATE: 76

TITLE: OPERATION AND MAINTENANCE OF WASTEWATER COLLECTION SYSTEMS: A FIELD STUDY TRAINING PROGRAM.

PERSONAL AUTHOR: KERRI, K., ED.; BRADY, J., ED.

DESCRIPTOR: EQUIPMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MAINTENANCE; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; *PUMPS; RECORDS; SAFETY; TROUBLESHOOTING; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1711P. 300 SLIDES; REVISED ANNUALLY; ALSO AVAILABLE ON ERIC MICROFICHE ED150007

ABSTRACT: WRITTEN BY EXPERIENCED COLLECTION SYSTEM WORKERS (MAINTENANCE MEN) WITH THE INTENT OF PROVIDING COLLECTION SYSTEMS WORKERS WITH THE INFORMATION THEY NEED TO KNOW TO OPERATE AND MAINTAIN THEIR COLLECTION SYSTEMS AS SAFELY AND AS EFFICIENTLY AS POSSIBLE. TOPICS COVERED INCLUDE JOB OPPORTUNITIES, WHY OPERATION AND MAINTENANCE, COMPONENTS OF SYSTEM, REVIEW OF PLANS AND SPECS, INSPECTION, TESTING, TELEVISING SEWERS, BALLING HIGH VELOCITY CLEANERS, SCOOTERS, KITES, RODDING, BUCKETS, REPAIRS, LIFT STATIONS, MAINTENANCE RECORDS.

AVAILABLILITY: DEPARTMENT OF CIVIL ENGINEERING, CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, 6000 JAY STREET, SACRAMENTO, CA 95819 ($30.00)

e. Determine the availability of the material. The resume for EW002419 is listed above. The AVAILABILITY section indicates the material can be obtained from, DEPARTMENT OF CIVIL ENGINEERING, CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, 6000 JAY STREET, SACRAMENTO, CA 95819 ($30.00).

3. Question

How can I find materials which consider land application and wastewater treatment?

Search Strategy

Follow the same procedures as for question 2, only use entries for land application and wastewater treatment.

B. Samples of Searches Using the Author Index

1. Question

How can I find materials written by John Austin?

a. Search Strategy

Entries for authors are placed in alphabetical order. Turn to the author index to find AUSTIN.

AUSTIN, J. H.
EW 000 508

AUSTIN, J. H.
EW 003 489

AUSTIN, J. H., ED.
EW 003 414

b. Locate resumes in the resume section. An example of one resume, EW003489, is listed below.

IRIS ACCESSION NUMBER: EW003489

ERIC ACCESSION NUMBER: ED161694

PUBLICATION DATE: 74

TITLE: *DEVELOPMENT AND EXCHANGE OF INSTRUCTIONAL RESOURCES* IN WATER QUALITY CONTROL PROGRAMS, II: INSTRUCTIONAL MATERIALS AVAILABLE.

PERSONAL AUTHOR: AUSTIN, JOHN H.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; MANUALS; POLLUTION; *POSTSECONDARY EDUCATION; REFERENCE MATERIALS; TEXTBOOKS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; WATER QUALITY; *WATER TREATMENT

EDRS PRICE: *DOCUMENT NOT AVAILABLE FROM EDRS.*

DESCRIPTIVE NOTE: 43P.; FOR RELATED DOCUMENTS, SEE SE 025 118-119; CONTAINS NUMEROUS MARGINAL LEGIBILITY

ISSUE: RIEMAR79

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF REPORTS WHICH REVIEWS INSTRUCTIONAL MATERIALS AND EQUIPMENT FOR WATER AND WASTEWATER TREATMENT PLANT PERSONNEL. APPROXIMATELY 900 ITEMS ARE LISTED IN THIS DOCUMENT ALONG WITH GUIDELINES FOR THE PRODUCTION OF INSTRUCTIONAL MATERIALS. INFORMATION IS PROVIDED REGARDING THE SOURCE, TYPE OF MATERIAL, INTENDED AUDIENCE, DESIGNED USAGE, AND COST. (CS)

GRANT NUMBER: EPA-900253

AVAILABILITY: ERIC CLEARINGHOUSE FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (ON LOAN).

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

c. Check availability in the AVAILABILITY section of the resume. The item listed above is available from, ERIC CLEARINGHOUSE FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (ON LOAN).

2. Question

How can I find materials written by Ken Kerri?

a. Search Strategy

Entries for authors are placed in alphabetical order. Turn to the author index to find KERRI.

KERRI, K., ED.
EW 000 141
EW 002 419

b. Locate resumes in the resume section. An example of one resume, EW002419, is listed below.

IRIS ACCESSION NUMBER: EW002419

PUBLICATION DATE: 76

TITLE: OPERATION AND MAINTENANCE OF WASTEWATER COLLECTION SYSTEMS: A FIELD STUDY TRAINING PROGRAM.

PERSONAL AUTHOR: KERRI, K., ED.; BRADY, J., ED.

DESCRIPTOR: EQUIPMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MAINTENANCE; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; *PUMPS; RECORDS; SAFETY; TROUBLESHOOTING; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1711P. 300 SLIDES; REVISED ANNUALLY; ALSO AVAILABLE ON ERIC MICROFICHE ED150007.

ABSTRACT: WRITTEN BY EXPERIENCED COLLECTION SYSTEM WORKERS (MAINTENANCE MEN) WITH THE INTENT OF PROVIDING COLLECTION SYSTEMS WORKERS WITH THE INFORMATION THEY NEED TO KNOW TO OPERATE AND MAINTAIN THEIR COLLECTION SYSTEMS AS SAFELY AND AS EFFICIENTLY AS POSSIBLE. TOPICS COVERED INCLUDE JOB OPPORTUNITIES, WHY OPERATION AND MAINTENANCE, COMPONENTS OF SYSTEM, REVIEW OF PLANS AND SPECS, INSPECTION, TESTING, TELEVISING SEWERS, BALLING HIGH VELOCITY CLEANERS, SCOOTERS, KITES, RODDING, BUCKETS, REPAIRS, LIFT STATIONS, MAINTENANCE, RECORDS.

AVAILABILITY: DEPARTMENT OF CIVIL ENGINEERING, CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, 6000 JAY STREET, SACRAMENTO, CA 95819 ($30.00)

c. Check availability in the AVAILABILITY section of the resume. The item listed above is available from, DEPARTMENT OF CIVIL ENGINEERING, CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, 6000 JAY STREET, SACRAMENTO, CA 95819 ($30.00).

C. Samples of Searches Using the Institutional Index

1. Question

How can I locate materials produced by the Water Pollution Control Federation?

a. Search Strategy

Entries for institutions are placed in alphabetical order. Turn to the Institution Index to find WATER POLLUTION CONTROL FEDERATION.

WATER POLLUTION CONTROL FEDERATION

EW 000 004	EW 000 552
EW 000 112	EW 000 553
EW 000 113	EW 000 554
EW 000 114	EW 000 563
EW 000 115	EW 003 032
EW 000 116	EW 003 137
EW 000 117	EW 003 162
EW 000 118	EW 003 163
EW 000 119	EW 003 317
EW 000 120	EW 003 810
EW 000 121	EW 003 821
EW 000 124	EW 003 822
EW 000 126	EW 003 823
EW 000 128	

b. Locate resumes in the resume section. An example of one resume, EW003821, is listed below.

IRIS ACCESSION NUMBER: EW003821

PUBLICATION DATE: 78

TITLE: WPCF WASTEWATER TREATMENT PLANT OPERATOR TRAINING PROGRAM, INTERMEDIATE COURSE: STUDENT WORKBOOK, VOL. A, PARTS 1 AND 2.

DESCRIPTOR: *ACTIVATED SLUDGE; AUDIOVISUAL AIDS; CERTIFICATION; *CLARIFICATION (WASTEWATER); ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *OPERATIONS (WASTEWATER); POLLUTION; *POST SECONDARY EDUCATION; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 244P. COURSE MATERIALS: 35 MM SLIDES (340), 9 TAPE CASSETTES, ADMINISTRATOR HANDBOOK, CARRYING CASE, AND STUDENT WORKBOOK (PARTS 1 AND 2) - ORDER NO. E0291, $400.00; STUDENT WORKBOOK ONLY - ORDER NO. E0292, $4.50; OTHER VOLUMES: EW003822 AND EW003823

ABSTRACT: THIS DOCUMENT IS THE ONE IN A SERIES OF SELF-INSTRUCTIONAL WORKBOOKS FOR TRAINING WASTEWATER TREATMENT PLANT OPERATORS IN THE BASIC FUNCTIONS OF FACILITY OPERATION. THE WORKBOOK CONTAINS A PRE- AND POST-TEST QUESTIONNAIRE FOR EACH UNIT AS WELL AS SELF-TESTS AS INTERIM GUIDES. THE UNITS DISCUSSED IN THE VOLUME ARE A GENERAL INTRODUCTION, THE COMMUNITY WASTEWATER SYSTEM, PRE-TREATMENT, CLARIFICATION, AND ACTIVATED SLUDGE. (CS)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., WASHINGTON, D.C. 20037

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION

c. Check availability in the AVAILABILITY section of the resume. The item listed above is available from, WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., WASHINGTON, D.C. 20037.

IV. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EPA Information Dissemination Project
1200 Chambers Road, Rm. 310
Columbus, OH 43212

Corrections of errors will occur in IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the source to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

V. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about six times a year as information is available.

If you are not on the mailing list write to the EPA Information Dissemination Project. Limited numbers of some back issues are still available.

If you need information about IRIS you can also phone 614-422-6717 with your questions.

VI. Requests for Assistance in Using IRIS

A. Assistance in use of IRIS manuals.

If you need help in using the IRIS manuals phone 614-422-6717 or write to the EPA Information Dissemination Project. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

B. Assistance in accessing IRIS by computer

1. Conducting searches.

See section VIII.

2. Subscribing to BRS, Inc. for computer searching of IRIS

   Contact: Bibliographic Retrieval Services, Inc.
   Corporation Park, Building 702
   Scotia, New York 12302

   Phone: 518-374-5011

3. Contacting a computer search service (an agency that will conduct a search for you, usually for a fee)

   The EPA Information Dissemination Project maintains a list of agencies that can conduct searches. Most charge a fee, though some are free to qualified users in a limited geographical area.

   Phone or write to obtain information for your area.

VII. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EPA Information Dissemination Project plans to develop some user service products in selected areas in 1980.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse for Adult, Career, and Vocational Education
Ohio State University
Center for Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabiliation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
School of Education Building, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings,theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary & Early Childhood Education
University of Illinois
College of Education
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research, and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management
University of Oregon
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exception Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, goverance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. ERIC Clearinghouse on Information Resources
Syracuse University
School of Education
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges
University of California
Powell Library, Room 96
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linguistics
Center for Applied Linguistics
1611 North Kent Street
Arlington, Virginia 22209
Telephone: (703) 528-4312

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English for speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teachers of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics, and Environmental Education
Ohio State University
1200 Chambers Road, Third Floor
Columbus, Ohio 43212
Telephone: (614) 422-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
855 Broadway
Boulder, Colorado 80302
Telephone: (303) 492-8434

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education
One Dupont Circle, NW, Suite 616
Washington, DC 20036
Telephone: (202) 293-7280

School personnel at all levels; all issues from selection through preservice and inservice preparation and training to retirement; curricula; educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service
Princeton, New Jersey 08540
Telephone: (609) 921-9000 ext. 2176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects or programs.

P. ERIC Clearinghouse on Urban Education
Box 40
Teachers College, Columbia University
525 W. 120th Street
New York, New York 10027
Telephone: (212) 678-3437

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences); education of urban, Puerto Rican and Asian American populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics; structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Central ERIC
National Institute of Education
Washington, DC 20208
Telephone: (202) 254-5555

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VIII. How to Structure a Computer Search of IRIS

This explanation relates to the IRIS data base that can be searched on-line through Bibliographic Retrieval Services, Inc. As IRIS becomes available through other sources, information relevant to those services will be provided.

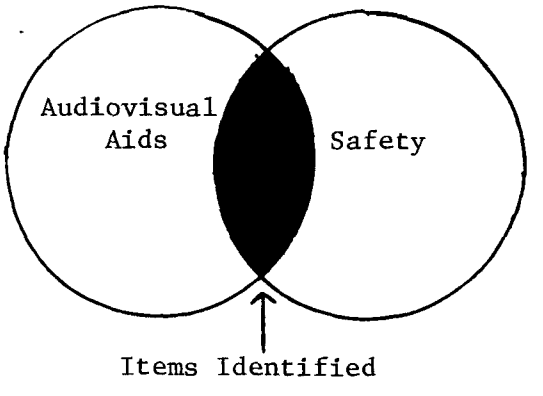
A few notes about the service are important. The following fields are searchable by computer: (1) IRIS Accession Number (EW number), (2) ERIC Accession Number (ED number), (3) Authors, (4) Institution (5) Title, (6) subject index terms, and (7) abstract.

If you submit a search of IRIS through BRS, the program will search for the words you select in three fields unless the searcher requests to limit the search. These fields are: (1) the title field, (2) the subject index field, and (3) the abstract. We recommend you use this feature especially for searches on specific terms. If you find more material than you want by this technique you can narrow the search to items that may have the most information on the topic by limiting the search to the subject index field.

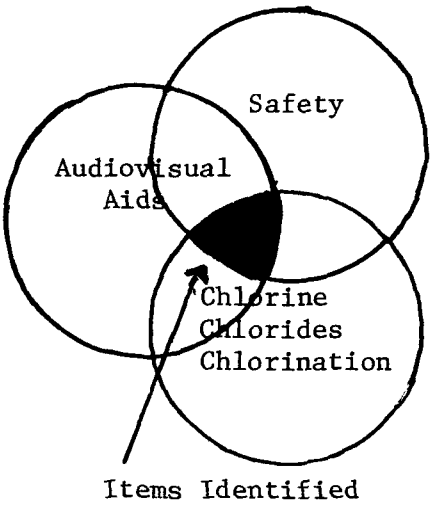
Several sample searches are listed.

A. Sample 1

If you want to locate audiovisual aids that relate to safety you would submit a search with audiovisual aids and safety. Materials that included the terms both audiovisual aids and safety in the title field, the abstract, and the subject index field would be identified by the computer.

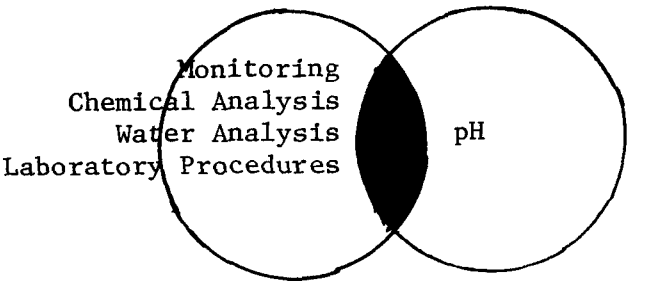


The computer program can tell you the number of items, the title of the items, or print the entire resume of each item. If you were primarily interested in audiovisual aids, safety, and chlorine you would submit a search of these three terms. You might want to include chlorides and chlorination as well as chlorine in the search. This search would identify materials that contained audiovisual aids, safety, and one or more of the words, chlorine, chlorides, and chlorination.



B. Sample 2

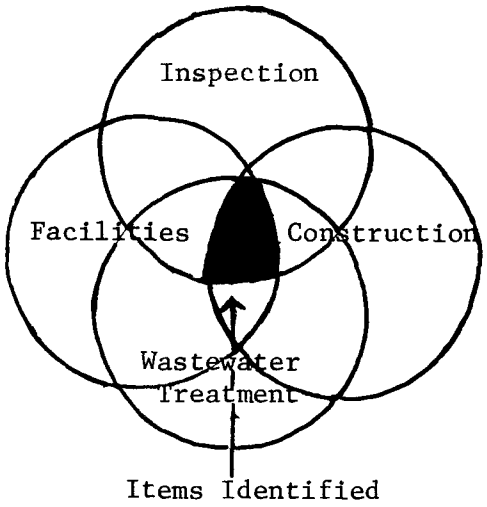
If you want to identify materials related to monitoring, you should include several related terms and the chemical, material, or situation that is being monitored. See the example below.



This search would identify all the items that included any of the terms on the left and pH.

C. Sample 3

If you are interested in materials related to inspection and construction you could conduct a search of these two terms. The search would identify all materials that included both terms. If you were interested in only wastewater treatment facilities you could construct a search as diagrammed.



This search would yield specific materials and demonstrates how a computer search can help you locate materials you want.

D. Use of the Subject Index

The subject index in the back of the compilation can be used to help you decide if you want to do a computer search. If there are relatively few entries, you can check the resumes in the resume section. If there is a large number of entries (perhaps 50 or more) you may want to use a computer search.

As the data base gets larger, you will find more entries for subject index terms and computer searching will offer more advantages.

The subject index can also be used to help you select words to include in a search. Words listed in the subject index are certain to be in the searchable fields. Therefore, selecting these terms to use in structuring a search will increase the probability of locating materials. Some words will appear in the title or abstract that are not included in the subject term field. Such words can be used to check if any materials are in the data base. If, however, you conduct a search with such a word it is usually best to include a synonym that is in the subject index.

IX. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on loan from the EPA National Training and Operational Technology Center, Cincinnati, Ohio 45268. They also offer a copy service to reproduce materials at a very reasonable price.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

C. The EPA Information Dissemination Project will provide xerox copies of materials that are not copyrighted for $1.00 per document plus $0.03 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EPA Information Dissemination Project. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

X. USEPA
National Training and Operation Technology Center
Cincinnati, Ohio 45268

To fulfill national educational and training requirements, USEPA has organized the National Training and Operational Technology Center (NTOTC). NTOTC has the responsibility for planning, developing, conducting and evaluating USEPA's water pollution control training and education program. As an instructional resource, its purpose is to help regions, states, local governments and educational institutions to become knowledgeable about USEPA's goals, regulations, strategies, as well as the implications of USEPA programs which affect virtually everyone.

Activities encompass three categories: (1) instruction; (2) course development; and (3) information management.

Instruction--NTOTC offers a variety of training courses in water quality control. Such courses are taught at many locations, but most are presented at the Environmental Research Center in Cincinnati, Ohio. A current project will expand this effort to enable more environmental personnel to receive specialized instruction. Area training centers will soon act as satellites to the NTOTC program, offering similar courses and instructional support. Select universities with broad pollution control curricula will act as area training centers within a region. As a result, more pollution control personnel will have access to needed specialized training.

Since 1971, the NTOTC professional staff of chemists, biologists and engineers has presented nearly 350 courses to more than 8,000 students. Courses are offered throughout the year, and are designed to help participants understand current pollution control techniques and procedures. As USEPA regulations and policies are implemented, based in large part on USEPA research, courses are offered by NTOTC staff to upgrade knowledge and develop specific skills or procedures.

Some courses are conducted at wastewater treatment plants, enabling USEPA to work directly with plant personnel to improve treatment plant effluent. While working on site at treatment plants, staff can diagnose and discuss particular problems and can provide information on design and operation to many technicians within the local region.

Courses currently are offered in five general categories: wastewater treatment technology, treatment facility evaluation and inspection, water quality surveillance and monitoring, water quality analysis, and drinking water quality monitoring.

Students attend courses from all states, and from some foreign countries. The largest percentage represent federal, state, and municipal pollution control agencies. A relatively small number of college and university instructors attend these short courses which are typically one week in length. USEPA encourages more participation by the educational community, so that current skills and knowledge will be transmitted to students to enable them to deal with pollution control problems as they enter environmental occupations. Community college and university instructors may attend courses free of charge by following prescribed application procedures.

Course Development--NTOTC is active in the field of course development. As new educational and training needs are identified, appropriate instructional packages are developed. Almost all such development is based on current research and agency regulations. Materials include instructor guides, student manuals and supporting audiovisual materials. If USEPA's pollution control training programs are to be successfully implemented, college and university staff from various departments must cooperate and integrate these instructional activities within their curriculums; or students will not be adequately prepared, either theoretically or practically.

Information Management--The goal of USEPA's information management system is to support, in a comprehensive and systematic manner, those involved with pollution control education and training. A central location within the NTOTC facility is designed to provide a contact point and to coordinate assistance efforts and has been designated the Instructional Resources Center (IRC).

As the education and training community has become more aware of the types of programs operated by the IRC, requests for information have expanded dramatically. In the past 12 months, about 1,200 letters and 400 telephone calls from a variety of sources have been received. Many requests for assistance from instructors, information specialists, municipal water and wastewater treatment plant trainers, and representatives of government and business have been received.

Through the IRC, NTOTC maintains a central location to inventory, evaluate, catalog and disseminate instructional materials in the areas of water pollution control, water supply, and pesticides. Composed of several different but interrelated activities, it acts as a primary communications link between USEPA and educators at all post-secondary levels.

The IRC includes an audiovisual lending library housing 44 slide/tape presentations, 50 films and 79 videotapes, all available for free, short-term loan. At the present time, about 1,500 are loaned each year; the number of loans increases with increasing awareness of this supportive activity. Most subject areas available are water quality-oriented.

Interested persons are invited to Cincinnati to use IRC facilities for reviewing tapes, slides, films, and other materials before deciding about purchases or curriculum development requirements. IRC staff assist visitors by determining the most appropriate ways to use the Center's resources, or in determining educational and training program requirements and available resources. During the past year, universities and state and local governments have been assisted with curriculum design, course materials selection, and audiovisual support efforts.

For more information on NTOTC write to the center at the above address.

RESUME SECTION

IRIS ACCESSION NUMBER: EW000001

PUBLICATION DATE: 65

TITLE: INDEX TO JOURNAL AWWA.

DESCRIPTOR: *BIBLIOGRAPHIES; *FACILITIES; *INDEXES; INSTRUCTIONAL MATERIALS; *JOURNAL ARTICLES; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 133P. REPORT NO. 10001, 1956-65, CLOTHBOUND

ABSTRACT: SUBJECT, AUTHOR AND GEOGRAPHICAL INDEXES TO ARTICLES FROM THE JOURNAL, AMERICAN WATER WORKS ASSOCIATION 1956-65

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($10.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000002

PUBLICATION DATE: 55

TITLE: INDEX TO JOURNAL AWWA.

DESCRIPTOR: *BIBLIOGRAPHIES; *FACILITIES; *INDEXES; INSTRUCTIONAL MATERIALS; *JOURNAL ARTICLES; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 192P. REPORT NO. 10002, 1940-55, CLOTHBOUND

ABSTRACT: SUBJECT, AUTHOR AND GEOGRAPHICAL INDEXES TO ARTICLES FROM THE JOURNAL, AMERICAN WATER WORKS ASSOCIATION 1940-55

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($9.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000003

PUBLICATION DATE: 69

TITLE: GLOSSARY: WATER AND WASTEWATER CONTROL ENGINEERING.

DESCRIPTOR: *GLOSSARIES; INSTRUCTIONAL MATERIALS; OPERATIONS (WASTEWATER); OPERATIONS (WATER); *VOCABULARY; WASTEWATER TREATMENT; *WATER TREATMENT; *WORD LISTS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: REPORT NO. 10003

ABSTRACT: DEFINITIONS OF TERMS COMMONLY USED IN THE WATER AND WASTEWATER FIELDS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($10.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.; WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000004

PUBLICATION DATE: 75

TITLE: STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY TECHNIQUES; *SAMPLING; *WASTEWATER ANALYSIS; *WATER ANALYSIS; BIOLOGICAL ANALYSIS; CHEMICAL ANALYSIS; EFFLUENTS; INSTRUCTIONAL MATERIALS; MONITORING; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: REPORT NO. 10004, 14TH ED

ABSTRACT: CONTAINS PROCEDURES FOR CONDUCTING COMMONLY ACCEPTED ANALYSES OF POTABLE WATER AND WASTEWATER EFFLUENTS, ALONG WITH INFORMATION ON EVALUATION OF RESULTS OF SUCH ANALYSIS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($35.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC. WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000006

PUBLICATION DATE: 69

TITLE: WATER TREATMENT PLANT DESIGN.

DESCRIPTOR: *CONSTRUCTION; *DESIGN; DISINFECTION; *EQUIPMENT (PLANT); *FACILITIES; FILTRATION; FLOCCULATION; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; SEDIMENTATION; *TERTIARY TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: REPORT NO. 10006

ABSTRACT: DESIGN INFORMATION FOR ALL PHASES OF WATER TREATMENT PLANTS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($15.00)

INSTITUTION NAME: AMERICAN SOCIETY OF CIVIL ENGINEERS.; AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000008

PUBLICATION DATE: 71

TITLE: WATER QUALITY AND TREATMENT: A HANDBOOK OF PUBLIC WATER SUPPLIES, 3RD ED.

DESCRIPTOR: CHEMISTRY; COAGULATION; DISINFECTION; FLOCCULATION; FLUORIDATION; *INSTRUCTIONAL MATERIALS; *MANUALS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; SLUDGE CHARACTERISTICS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: NO. 10008

ABSTRACT: THEORY AND PRACTICAL INFORMATION CONCERNING WATER TREATMENT PROCESSES COMPILED BY PANEL OF EXPERTS IN THE FIELD.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($24.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000012

PUBLICATION DATE: 74

TITLE: CROSS CONNECTIONS AND BACKFLOW PREVENTION, 2ND ED.

PERSONAL AUTHOR: ANGELE, G. J.

DESCRIPTOR: *BACKFLOW; *CROSS-CONNECTIONS; DISTRIBUTION SYSTEMS; *INSTRUCTIONAL MATERIALS; OPERATIONS (WATER); *POST SECONDARY EDUCATION; *POTABLE WATER; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER SUPPLY; WATER TREATMENT

DESCRIPTIVE NOTE: 54P. PAPER BOUND, ORDER HANDBOOK NO. 20106

ABSTRACT: CONTROLS, METHODS & DEVICES FOR THE PROTECTION OF POTABLE WATER SUPPLIES FROM NONPOTABLE SOURCES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($7.50)

IRIS ACCESSION NUMBER: EW000013

PUBLICATION DATE: 71

TITLE: IMPROVING WATER TREATMENT OPERATIONS.

DESCRIPTOR: *DISTRIBUTION SYSTEMS; *FACILITIES; *OPERATIONS WATER; *STANDARDS; *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT; CHLORINATION; FILTRATION; FLOCCULATION; MAINTENANCE; ODOR; POST SECONDARY EDUCATION; RESERVOIRS; SEDIMENTATION; TASTE

DESCRIPTIVE NOTE: REPORT NO. 20107; HANDBOOK FOR USE IN WORKSHOP ON IMPROVING WATER TREATMENT OPERATIONS

ABSTRACT: LISTING OF USPHS DRINKING WATER STANDARD 1962 AWWA WATER QUALITY GOALS, CONTROL OF SUPPLY QUALITY TREATMENT PROCESSES AND THEIR IMPROVEMENT.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($7.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000014

PUBLICATION DATE: 74

TITLE: SURVEY OF OPERATING DATA FOR WATER WORKS IN 1965 AND 1970.

DESCRIPTOR: *DATA; *DISTRIBUTION SYSTEMS; *FACILITIES; *OPERATIONS WATER; *SURVEYS; *WATER TREATMENT; COSTS; MANAGEMENT; PLANT PERFORMANCE

DESCRIPTIVE NOTE: REPORT NO. 20112; PAPER BOUND STAFF REPORT

ABSTRACT: COMPILATION OF WATERWORKS OPERATING DATA FOR 1965 AND 1970 FROM OVER 700 WATER UTILITIES IN THE U.S. INCLUDES TREATMENT, STORAGE, DISTRIBUTION, O & M CHARGES, RATES, CAPITAL INVESTMENT AND EXPENDITURES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($20.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000017

PUBLICATION DATE: 67

TITLE: SUGGESTED COURSE OUTLINE FOR WATER DISTRIBUTION SYSTEM OPERATORS: GRADE I-BASIC.

DESCRIPTOR: *CERTIFICATION; *COURSE CONTENT; *DISTRIBUTION SYSTEMS; *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; *OPERATIONS WATER; *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 40P. SPIRAL BOUND, PAPER COVER, HANDBOOK NO. 20113; COST OF THE THREE-VOLUME SET (EW000017-EW000019; ORDER NO 20116) IS $14.00

ABSTRACT: THE COURSE OUTLINE DEFINES JOB SKILLS IN 20 INSTRUCTIONAL TOPICS TO ASSIST WATER DISTRIBUTION OPERATORS TO MEET CERTIFICATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000018

PUBLICATION DATE: 67

TITLE: SUGGESTED COURSE OUTLINE FOR WATER DISTRIBUTION SYSTEM OPERATORS: GRADE II-INTERMEDIATE.

DESCRIPTOR: *CERTIFICATION; *COURSE CONTENT; *DISTRIBUTION SYSTEMS; *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; *OPERATIONS WATER; *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 162P. SPIRAL BOUND, PAPER COVER, HANDBOOK NO. 20114; COST OF THE THREE-VOLUME SET (EW000017-EW000019; ORDER NO. 20116) IS $14.00

ABSTRACT: THE COURSE OUTLINE DEFINES JOB SKILLS IN 20 INSTRUCTIONAL TOPICS TO ASSIST WATER DISTRIBUTION OPERATORS TO MEET CERTIFICATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($6.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000019

PUBLICATION DATE: 67

TITLE: SUGGESTED COURSE OUTLINE FOR WATER DISTRIBUTION SYSTEMS OPERATORS: GRADE III-ADVANCED.

DESCRIPTOR: *CERTIFICATION; *COURSE CONTENT; *DISTRIBUTION SYSTEMS; *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; *OPERATIONS WATER; *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 202P. SPIRAL BOUND, PAPER COVER, HANDBOOK NO. 20115; COST OF THE THREE-VOLUME SET (EW000017-EW000019; ORDER NO. 20116) IS $14.00

ABSTRACT: THE COURSE OUTLINE DEFINES JOB SKILLS IN 20 INSTRUCTIONAL TOPICS TO ASSIST WATER DISTRIBUTION OPERATORS TO MEET CERTIFICATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($7.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000020

PUBLICATION DATE: JAN 70

TITLE: SUGGESTED TRAINING OUTLINES FOR WATER TREATMENT OPERATORS: GRADE I-ADVANCED.

DESCRIPTOR: *CERTIFICATION; *COURSE CONTENT; *DISTRIBUTION SYSTEMS; INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 367P. SPIRAL BOUND, PAPER COVER, HANDBOOK NO. 20117; COST OF THE THREE-VOLUME SET (EW000020-EW000022; ORDER NO. 20120) IS $30.00

ABSTRACT: COURSE TRAINING OUTLINES ENCOMPASSING 29 TOPICS OF INSTRUCTION. COURSE MATERIAL CONSIDERED NECESSARY TO MEET TRAINING NEEDS OF OPERATORS FOR GRADE I WATER TREATMENT CERTIFICATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($12.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000021

PUBLICATION DATE: JAN 70

TITLE: SUGGESTED TRAINING OUTLINES FOR WATER TREATMENT OPERATORS: GRADE II-INTERMEDIATE.

DESCRIPTOR: *CERTIFICATION; *COURSE CONTENT; *DISTRIBUTION SYSTEMS; *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 323P. SPIRAL BOUND, HANDBOOK NO. 20118; COST OF THE THREE-VOLUME SET (EW000020-EW000022; ORDER NO. 20120) IS $30.00

ABSTRACT: COURSE TRAINING OUTLINES ENCOMPASSING 29 TOPICS OF INSTRUCTION. COURSE MATERIAL CONSIDERED NECESSARY TO MEET TRAINING NEEDS OF OPERATORS FOR GRADE II WATER TREATMENT CERTIFICATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000022

PUBLICATION DATE: JAN 70

TITLE: SUGGESTED TRAINING OUTLINES FOR WATER TREATMENT OPERATORS: GRADES III AND IV - BASIC.

DESCRIPTOR: *CERTIFICATION; *COURSE CONTENT; *DISTRIBUTIO SYSTEMS; *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS *OPERATIONS (WATER); *POST SECONDARY EDUCATION; *WATE TREATMENT

DESCRIPTIVE NOTE: 239P. SPIRAL BOUND, PAPER COVER HANDBOOK NO. 20119; COST OF THE THREE-VOLUME SET (EW000020 EW000022; ORDER NO. 20120) IS $30.00.

ABSTRACT: COURSE TRAINING OUTLINES ENCOMPASSING 29 TOPIC OF INSTRUCTION COURSE MATERIAL CONSIDERED NECESSARY TO MEE TRAINING NEEDS OF OPERATORS FOR GRADE III WATER TREATMEN CERTIFICATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($12.00)

IRIS ACCESSION NUMBER: EW000023

PUBLICATION DATE: 72

TITLE: WATER RATES.

DESCRIPTOR: *COSTS; *ECONOMICS; *INSTRUCTIONAL MATERIALS *UTILITIES; *WATER RATES; *WATER TREATMENT; OPERATION WATER; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 44P. REPORT NO. 30001, PAPER BOUND

ABSTRACT: STUDY OF RATE-MAKING POLICIES AND PRACTICE DEVELOPMENT AND DESIGN OF RATE SCHEDULES, ALLOCATION O COSTS, AND CUSTOMER CLASSIFICATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINC AVE. DENVER, CO 80235 ($6.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000024

PUBLICATION DATE: 71

TITLE: SAFETY PRACTICE FOR WATER UTILITIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *INSTRUCTIONAL MATERIALS; *MANUALS; OPERATIONS (WATER); *POST SECONDARY EDUCATION; *SAFETY; UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 128P. PAPER BOUND, MANUAL NO. 30003 (M3)

ABSTRACT: A MANUAL COVERING ALL ASPECTS OF EMPLOYEE ACCIDENT PREVENTION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($8.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000025

PUBLICATION DATE: 62

TITLE: TRAINING COURSE IN WATER UTILITY MANAGEMENT.

DESCRIPTOR: ACCOUNTING; *ADMINISTRATION; BUDGETS; DISTRIBUTION SYSTEMS; ECONOMICS; *INSTRUCTIONAL MATERIALS; *LAWS; *MANAGEMENT; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *REGULATIONS; *SAFETY; *WATER TREATMENT

DESCRIPTIVE NOTE: 188P. AWWA REPORT M5

ABSTRACT: LEGAL AND FINANCIAL FACTORS AS WELL AS INTERNAL ADMINISTRATIVE PROCEDURES PROVIDE PRIMARY FOCUS; LITTLE ATTENTION DIRECTED TO EQUIPMENT OR TECHNICAL ASPECTS OF OPERATIONS. INCLUDES SECTION ON ANNUAL REPORTS AND EMPLOYEE HANDBOOKS. INDEX.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($9.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000026

PUBLICATION DATE: 73

TITLE: WATER METERS: SELECTION, INSTALLATION, TESTING AND MAINTENANCE.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MANUALS; POST SECONDARY EDUCATION; *WATER METERS

DESCRIPTIVE NOTE: 112P. REPORT NO. 30006

ABSTRACT: THIS MANUAL CONTAINS A DISCUSSION OF RECOMMENDATIONS AS A GUIDE TO THE SELECTION, INSTALLATION AND MAINTENANCE OF WATER METERS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($8.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000027

PUBLICATION DATE: 61

TITLE: ANIMALS ASSOCIATED WITH POTABLE WATER SUPPLIES: OPERATORS IDENTIFICATION GUIDE.

DESCRIPTOR: *AQUATIC ANIMALS; BIOLOGY; *INSTRUCTIONAL MATERIALS; *MANUALS; *PESTS; POST SECONDARY EDUCATION; *POTABLE WATER; *TAXONOMY; *WATER SUPPLY

DESCRIPTIVE NOTE: REPORT NO. 3007, MANUAL M7

ABSTRACT: IDENTIFICATION AND CLASSIFICATION OF AQUATIC ANIMALS

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($6.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000028

PUBLICATION DATE: 62

TITLE: WATER DISTRIBUTION TRAINING COURSE.

DESCRIPTOR: *CONSTRUCTION; *DISTRIBUTION SYSTEMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS WATER; *PIPES; *WATER TREATMENT; FLOW METERS; MATHEMATICS; POST SECONDARY EDUCATION; PUMPS; WATER SUPPLY

DESCRIPTIVE NOTE: 165P. AWWA REPORT M8

ABSTRACT: DISTRIBUTION SYSTEM ANALYZED FROM CONSTRUCTION (INCLUDING CUSTOMER SERVICE LINES), EQUIPMENT, ADMINISTRATION, AND MAINTENANCE ASPECTS. ALSO EMPHASIZES HYDRAULICS INCLUDING DISCUSSION OF EQUATIONS USED (HAZEN WILLIAM, TORRICELLI, BERNAULI); AND LEAK DETECTION. INDEX.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($9.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000029

PUBLICATION DATE: 61

TITLE: INSTALLATION OF CONCRETE PIPE.

DESCRIPTOR: *CONCRETE PIPES; *INSTRUCTIONAL MATERIALS; *MANUALS; *MAINTENANCE; *PIPES; POST SECONDARY EDUCATION; *PLUMBING

DESCRIPTIVE NOTE: 32P. REPORT NO. 30009

ABSTRACT: THIS MANUAL PROVIDES A DESCRIPTION OF AVAILABLE CONCRETE PRESSURE PIPES AND SUGGESTIONS FOR INSTALLATION BASED ON EXPERIENCE IN VARIOUS PARTS OF THE UNITED STATES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($5.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000030

PUBLICATION DATE: 63

TITLE: SIMPLIFIED SYSTEM OF ACCOUNTS FOR MUNICIPALLY OWNED WATER UTILITIES.

PERSONAL AUTHOR: NEWSOM, R.

DESCRIPTOR: *ACCOUNTING; *BUDGETING; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECORDS; *WATER TREATMENT

DESCRIPTIVE NOTE: REPORT NO. 30010, PAPER BOUND

ABSTRACT: SIMPLIFIED ACCOUNTING SYSTEM AS USED IN SCARSDALE, N.Y.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($5.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000031

PUBLICATION DATE: 64

TITLE: STEEL PIPE: DESIGN AND INSTALLATION.

DESCRIPTOR: CONSTRUCTION; *DESIGN; DISTRIBUTION SYSTEMS; INSTALLATION; INSTRUCTIONAL MATERIALS; *PIPES; PLUMBING; *STEEL PIPES; WATER TREATMENT; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 260P. REPORT NO. 30011

ABSTRACT: THE REPORT IS INTENDED TO PROVIDE A REVIEW OF WIDE EXPERIENCE AND DESIGN THEORY IN THE USE OF STEEL PIPE FOR CONVEYING WATER. IT IS INTENDED TO SUPPLEMENT BUT IN NO WAY SUPERSEDE THE REQUIREMENTS OF AWWA STANDARDS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($10.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000032

PUBLICATION DATE: 75

TITLE: SIMPLIFIED PROCEDURES FOR WATER EXAMINATION.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BACTERIAL ANALYSIS; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; *WATER ANALYSIS; WATER TREATMENT

DESCRIPTIVE NOTE: REPORT NO. 30012 (M12)

ABSTRACT: SIMPLIFIED DESCRIPTION OF WATER TESTING EQUIPMENT & PROCEDURES

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($9.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000033

PUBLICATION DATE: 66

TITLE: SPILLWAY DESIGN PRACTICE.

DESCRIPTOR: *DESIGN; *ENGINEERING; *FLOODS; *FLOW MEASUREMENT; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *SPILLWAYS; HYDRAULICS; POST SECONDARY EDUCATION; WATER RESOURCES

DESCRIPTIVE NOTE: REPORT NO. 30013 (M13)

ABSTRACT: GENERAL REFERENCE FOR DESIGN ENGINEER TO PROPERLY DESIGN SPILLWAY.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($8.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000034

PUBLICATION DATE: AUG 70

TITLE: RECOMMENDED PRACTICE FOR BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL.

DESCRIPTOR: *BACKFLOW; *CROSS-CONNECTIONS; *DESIGN; *DISTRIBUTION SYSTEMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *POTABLE WATER; *WATER DISTRIBUTION; *WATER QUALITY

DESCRIPTIVE NOTE: 22P. REPORT NO. 30014 (M14)

ABSTRACT: CONTROLS, METHODS AND DEVICES FOR THE PROTECTION OF POTABLE WATER SUPPLIES FROM NONPOTABLE SOURCES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($5.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000037

PUBLICATION DATE: 70

TITLE: INSTALLATION: OPERATION AND MAINTENANCE OF FIRE HYDRANTS.

DESCRIPTOR: *EQUIPMENT; *FIRE HYDRANTS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MANUALS; OPERATIONS (PLANT); POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 5P. REPORT NO. 30017

ABSTRACT: THIS MANUAL IS A GUIDE TO THE PROPER INSTALLATION, INSPECTION, MAINTENANCE AND REPAIR OF FIRE HYDRANTS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000038

PUBLICATION DATE: 71

TITLE: BASIC WATER TREATMENT OPERATORS MANUAL.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHLORINATION; *FLUORIDATION; *MANUALS; *OPERATIONS WATER; *RECORDS; *WATER TREATMENT; MANAGEMENT; PUMPS; SAFETY

DESCRIPTIVE NOTE: 129P. AWWA REPORT M18

ABSTRACT: WRITTEN ESPECIALLY FOR GRADE IV OPERATORS, EACH CHAPTER PRESENTS OBJECTIVES, DEFINITIONS, BACKGROUND FOLLOWED BY A DISCUSSION OF WATER TREATMENT, TESTS AND TREATMENT PROCESSES, EQUIPMENT AND PROCEDURES, CONCLUDED USUALLY WITH A SUMMARY OR REFERENCES. INCLUDES GRAPHS, TABLES, AND EQUIPMENT ILLUSTRATIONS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($8.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000039

PUBLICATION DATE: 66

TITLE: AWWA STANDARD FOR DEEP WELLS.

DESCRIPTOR: *CONSTRUCTION; *CONTRACTS; *DEEP WELLS; *GUIDES; REGULATIONS; *STANDARDS; WATER WELLS; *WELLS

DESCRIPTIVE NOTE: 64P. REPORT NO. 41100 (A100-66)

ABSTRACT: A GUIDE IN THE PREPARATION OF CONTRACT DOCUMENTS FOR WELL CONSTRUCTION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($5.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000040

PUBLICATION DATE: 72

TITLE: AWWA STANDARD FOR FILTERING MATERIAL.

DESCRIPTOR: *ACTIVATED CARBON; ANTHRACITE; *FILTRATION; GRAVEL; OPERATIONS (WATER); *REGULATIONS; *STANDARDS; *SAND; *WATER TREATMENT

DESCRIPTIVE NOTE: 20P. REPORT NO. 42100 (B100-72)

ABSTRACT: COVERS GRAVEL, SAND, ANTHRACITE AND ACTIVATED CARBON FILTER MATERIALS AND PLACEMENT OF THE MATERIALS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000041

PUBLICATION DATE: 74

TITLE: AWWA STANDARD FOR SODIUM CHLORIDE.

DESCRIPTOR: CHEMICAL TREATMENT; *CATION EXCHANGE; OPERATIONS (WATER); REGULATIONS; *SALT; *SOFTENING; *STANDARDS; *SODIUM CHLORIDE; *WATER SOFTENING; *WATER TREATMENT

DESCRIPTIVE NOTE: 16P. REPORT NO. 42200 (B200-74)

ABSTRACT: THIS STANDARD COVERS SODIUM CHLORIDE IN THE FORM OF ROCK, VACUUM-EVAPORATED GRANULAR, COMPRESSED EVAPORATED, OR SOLAR-EVAPORATED SALT FOR USE IN THE RECHARGING OF CATION-EXCHANGE MATERIALS FOR SOFTENING MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000042

PUBLICATION DATE: 74

TITLE: AWWA STANDARD FOR SODA ASH.

DESCRIPTOR: *CHEMICAL TREATMENT; *OPERATIONS (WATER); *STANDARDS; *SODA ASH; *SOFTENING; WATER SOFTENING; *WATER TREATMENT

DESCRIPTIVE NOTE: 12P. REPORT NO. 42201 (B201-74)

ABSTRACT: THIS STANDARD COVERS SODA ASH FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000043

PUBLICATION DATE: 77

TITLE: AWWA STANDARD FOR QUICKLIME AND HYDRATED LIME.

DESCRIPTOR: *CHEMICAL TREATMENT; *LIME; OPERATIONS (WATER); *QUICKLIME; REGULATIONS; SOFTENING; *STANDARDS; *WATER SOFTENING; *WATER TREATMENT

DESCRIPTIVE NOTE: 16P. REPORT NO. 42202 (B202-77)

ABSTRACT: THIS STANDARD COVERS PEBBLE, LUMP, OR GROUND QUICKLIME AND HYDRATED LIME FOR USE IN THE TREATMENT AND SOFTENING OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000044

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR HYPOCHLORITES.

DESCRIPTOR: *CHEMICAL TREATMENT; *CHLORINATION; *HYPOCHLORITES; *OPERATIONS WATER; *STANDARDS; *SODIUM HYPOCHLORITE; *WATER TREATMENT; CALCIUM HYPOCHLORITE; REGULATIONS

DESCRIPTIVE NOTE: 8P. REPORT NO. 42300 (B300-75)

ABSTRACT: THIS STANDARD COVERS CHLORINATED LIME, AND CALCIUM AND SODIUM HYPOCHLORITES FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000045

PUBLICATION DATE: 59

TITLE: AWWA STANDARD FOR LIQUID CHLORINE.

DESCRIPTOR: *CHEMICAL TREATMENT; *CHLORINE; *CHLORINATION; DISINFECTION; *LIQUID CHLORINE; OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO 42301 (B301--59)

ABSTRACT: THIS STANDARD COVERS LIQUID CHLORINE FOR USE IN THE TREATMENT OF WATER, SEWAGE, AND INDUSTRIAL WASTES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000046

PUBLICATION DATE: 64

TITLE: AWWA STANDARD FOR AMMONIUM SULFATE.

DESCRIPTOR: *AMMONIUM SULFATE; *CHEMICAL TREATMENT; *DISINFECTION; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42302 (B302-64)

ABSTRACT: THIS STANDARD COVERS AMMONIUM SULFATE FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000047

PUBLICATION DATE: 67

TITLE: AWWA STANDARD FOR SODIUM CHLORITE.

DESCRIPTOR: *CHEMICAL TREATMENT; *CHLORINATION; *DISINFECTION; *STANDARDS; *SODIUM CHLORITE; *WATER TREATMENT; OPERATORS WATER; REGULATIONS

DESCRIPTIVE NOTE: 8P. REPORT NO. 42303 (B303-67)

ABSTRACT: THIS STANDARD COVERS SODIUM CHLORITE, IN EITHER SOLID (GRANULAR OR POWDERED) OR LIQUID (WATER SOLUTION) FORM, FOR USE IN MAKING CHLORINE DIOXIDE FOR THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000048

PUBLICATION DATE: 68

TITLE: AWWA STANDARD FOR FERROUS SULFATE.

DESCRIPTOR: *CHEMICAL TREATMENT; *COAGULATION; *FERROUS SULFATE; OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 12P. REPORT NO. 42402 (B402-68)

ABSTRACT: THIS STANDARD COVERS FERROUS SULFATE, EITHER IN GRANULAR (DRY) OR IN SOLUTION (LIQUID) FORM FOR USE IN THE TREATMENT OF POTABLE AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000049

PUBLICATION DATE: 70

TITLE: AWWA STANDARD FOR ALUMINUM SULFATE: LUMP, GROUND, OR LIQUID.

DESCRIPTOR: *ALUMINUM SULFATE; *CHEMICAL TREATMENT; *COAGULATION; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 12P. REPORT NO. 42403 (B403-70)

ABSTRACT: THIS STANDARD COVERS ALUMINUM SULFATE, EITHER PURIFIED OR UNPURIFIED, AND IN LUMP, GROUND, OR LIQUID FORM FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000050

PUBLICATION DATE: 58

TITLE: AWWA STANDARD FOR LIQUID SODIUM SILICATE.

DESCRIPTOR: *ACTIVATED SILICA; *CHEMICAL TREATMENT; CORROSION; *LIQUID SODIUM SILICATE; OPERATIONS (WATER); REGULATIONS; *STANDARDS; *SODIUM SILICATE; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42404 (B404-58)

ABSTRACT: THESE SPECIFICATIONS COVER SODIUM SILICATE WHICH IS USED IN THE PREPARATION OF ACTIVATED SILICA FOR THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES AND FOR THE CONTROL OF CORROSION IN WATER SYSTEMS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000051

PUBLICATION DATE: 60

TITLE: AWWA STANDARD FOR SODIUM ALUMINATE.

DESCRIPTOR: *ALUMINATE; *CHEMICAL TREATMENT; *COAGULATION; OPERATIONS (WATER); REGULATIONS; *STANDARDS; *SODIUM ALUMINATE; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42405 (B405-60)

ABSTRACT: THIS STANDARD COVERS SODIUM ALUMINATE FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000052

PUBLICATION DATE: 64

TITLE: AWWA STANDARD FOR FERRIC SULFATE.

DESCRIPTOR: *CHEMICAL TREATMENT; *COAGULATION; *FERRIC SULFATE; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42406 (B406-64)

ABSTRACT: THIS STANDARD COVERS FERRIC SULFATE FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000054

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR CAUSTIC SODA.

DESCRIPTOR: *CAUSTIC SODA; *CHEMICAL TREATMENT; *CATHODIC PROTECTION; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42501 (B501-75)

ABSTRACT: THIS STANDARD COVERS CAUSTIC SODA, ANHYDROUS AND LIQUID, FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000055

PUBLICATION DATE: 67

TITLE: AWWA STANDARD FOR SODIUM HEXAMETAPHOSPHATE.

DESCRIPTOR: *CHEMICAL TREATMENT; CORROSION; HARDNESS; HEXAMETAPHOSPHATE; *OPERATIONS (WATER); REGULATIONS; SODIUM HEXAMETAPHOSPHATE; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 12P. REPORT NO. 42502 (B502-67)

ABSTRACT: THIS STANDARD COVERS SODIUM HEXAMETAPHOSPHATE FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES. THE CHEMICAL'S APPLICATIONS INCLUDE CORROSION CONTROL, SCALE PREVENTION, IRON AND MANGANESE STABILIZATION, AND REMOVAL OF HARDNESS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000056

PUBLICATION DATE: 66

TITLE: AWWA STANDARD FOR POWDERED ACTIVATED CARBON.

DESCRIPTOR: *ACTIVATED CARBON; ADSORPTION; *CHEMICAL TREATMENT; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; WATER TREATMENT

DESCRIPTIVE NOTE: 16P. REPORT NO. 42600 (B600-66)

ABSTRACT: THIS STANDARD COVERS POWDERED ACTIVATED CARBON FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000058

PUBLICATION DATE: 59

TITLE: AWWA STANDARD FOR COPPER SULFATE.

DESCRIPTOR: *CHEMICAL TREATMENT; *COPPER SULFATE; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42602 (B602-59)

ABSTRACT: THIS STANDARD COVERS COPPER SULFATE FOR USE IN THE TREATMENT OF MUNICIPAL AND INDUSTRIAL WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000059

PUBLICATION DATE: 77

TITLE: AWWA STANDARD FOR POTASSIUM PERMANGANATE.

DESCRIPTOR: *CHEMICAL TREATMENT; IRON; *MANGANESE; *OPERATIONS (WATER); *POTASSIUM PERMANGANATE; REGULATIONS; *STANDARDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42603 (B603-77)

ABSTRACT: THIS STANDARD COVERS POTASSIUM PERMANGANATE (KMNO4) FOR TREATMENT OF WATER SUPPLIES FOR POTABLE AND INDUSTRIAL USE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000060

PUBLICATION DATE: 71

TITLE: AWWA STANDARD FOR SODIUM FLUORIDE.

DESCRIPTOR: *CHEMICAL TREATMENT; *FLUORIDATION; FLUORIDES; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; *SODIUM FLORIDE; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42701 (B701-71)

ABSTRACT: THIS STANDARD COVERS SODIUM FLUORIDE (NAF), EITHER IN POWDERED OR CRYSTALLINE FORM, FOR USE IN THE TREATMENT OF POTABLE WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000061

PUBLICATION DATE: 74

TITLE: AWWA STANDARD FOR SODIUM SILICOFLUORIDE.

DESCRIPTOR: *CHEMICAL TREATMENT; *FLUORIDATION; FLUORIDES; *OPERATIONS (WATER); REGULATIONS; *STANDARDS; *SODIUM SILICOFLUORIDE; *WATER TREATMENT

DESCRIPTIVE NOTE: 8P. REPORT NO. 42702 (B702-74)

ABSTRACT: THIS STANDARD COVERS SODIUM SILICOFLUORIDE (NA2SIF6), WHICH IS ALSO KNOWN AS SODIUM FLUOSILICATE, INTENDED FOR USE IN THE TREATMENT OF POTABLE WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000062

PUBLICATION DATE: 71

TITLE: AWWA STANDARD FOR FLUOSILICIC ACID.

DESCRIPTOR: *CHEMICAL TREATMENT; *FLUOSILICIC ACID; *FLUORIDATION; *OPERATIONS WATER; *STANDARDS; *WATER TREATMENT; REGULATIONS

DESCRIPTIVE NOTE: 8P. REPORT NO. 42703 (B703-71)

ABSTRACT: THIS STANDARD COVERS FLUOSILIC ACID (H2SIF6) FOR USE IN THE TREATMENT OF POTABLE WATER SUPPLIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000063

PUBLICATION DATE: 67

TITLE: AMERICAN NATIONAL STANDARD FOR THICKNESS DESIGN OF CAST IRON PIPE.

DESCRIPTOR: *CAST IRON PIPES; *DESIGN; EQUIPMENT; *IRON PIPES; *PIPES; PLUMBING; REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 88P. REPORT NO. 43101 (C101-67) (ANSI A21.1-1967) (R 1972)

ABSTRACT: THIS STANDARD GIVES THE DESIGN METHOD AND DESIGN STRESSES TO DETERMINE THE THICKNESSES OF CAST-IRON PIPE COMPLYING WITH THE REQUIREMENTS OF AWWA C106 (ANSI A21.6) - CAST-IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS, FOR WATER OR OTHER LIQUIDS AND C108-75 (ANSI A21.8) CAST-IRON PIPE CENTRIFUGALLY CAST IN SAND-LINED MOLDS, FOR WATER OR OTHER LIQUIDS

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($6.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000064

PUBLICATION DATE: 74

TITLE: AMERICAN NATIONAL STANDARD FOR CEMENT MORTAR LINING FOR CAST IRON AND DUCTILE IRON PIPE AND FITTINGS.

DESCRIPTOR: CAST IRON PIPES; *CEMENT MORTAR LININGS; DESIGN; EQUIPMENT; *IRON PIPES; *PIPE LININGS; *PIPES; PLUMBING; REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 10P. REPORT NO. 43104 (C104-74)

ABSTRACT: THIS STANDARD COVERS CEMENT-MORTAR LININGS SPECIFIED IN THE A21 SERIES OF ANSI STANDARDS FOR CAST-IRON AND DUCTILE-IRON PIPE AND FITTINGS FOR WATER AND IS INTENDED FOR USE AS A SUPPLEMENT TO THOSE STANDARDS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000065

PUBLICATION DATE: 75

TITLE: AMERICAN NATIONAL STANDARD FOR CAST IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS FOR WATER OR OTHER LIQUIDS.

DESCRIPTOR: *CAST IRON PIPES; *DESIGN; EQUIPMENT; IRON PIPES; *PIPES; PLUMBING; REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 24P. REPORT NO. 43103 (C106-75) (ANSI A21.6-1970)

ABSTRACT: THIS STANDARD COVERS 3-IN. THROUGH 24-IN. CAST-IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS FOR WATER OR OTHER LIQUIDS. CHARACTERISTICS OF SUCH PIPE WITH PUSH-ON JOINTS, MECHANICAL JOINTS AND BELL-AND-SPIGOT JOINTS ARE GIVEN IN THE TABLES. THIS STANDARD MAY BE USED FOR PIPE WITH SUCH OTHER TYPES OF JOINTS AS MAY BE AGREED UPON AT THE TIME OF PURCHASE. THE THICKNESSES, WEIGHTS AND STRENGTH TEST REQUIREMENTS SHOWN IN THIS STANDARD ARE FOR PIPE WITH 18/40 IRON STRENGTH (18,000 PSI MINIMUM BURSTING TENSILE AND 40,000 PSI MINIMUM RING MODULUS OF RUPTURE).

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000066

PUBLICATION DATE: 75

TITLE: AMERICAN NATIONAL STANDARD FOR CAST IRON CENTRIFUGALLY CAST IN SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS.

DESCRIPTOR: *CAST IRON PIPES; *DESIGN; *IRON PIPES; *PIPES; *STANDARDS; EQUIPMENT; PLUMBING; REGULATIONS

DESCRIPTIVE NOTE: 28P. REPORT NO. 43108 (C108-75) (ANSI A21.8-1970)

ABSTRACT: THIS STANDARD COVERS 3-IN. THROUGH 48-IN. CAST-IRON PIPE CENTRIFUGALLY CAST IN SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS. CHARACTERISTICS OF SUCH PIPE WITH PUSH-ON JOINTS, MECHANICAL JOINTS AND BELL-AND-SPIGOT JOINTS ARE GIVEN IN THE TABLES. THIS STANDARD MAY BE USED FOR PIPE WITH SUCH OTHER TYPES OF JOINTS AS MAY BE AGREED UPON AT THE TIME OF PURCHASE. THE THICKNESS, WEIGHTS AND STRENGTH TEST REQUIREMENTS SHOWN IN THIS STANDARD ARE FOR PIPE WITH 18/40 IRON STRENGTH (18,000 PSI MINIMUM BURSTING TENSILE AND 40,000 PSI MINIMUM RING MODULUS OF RUPTURE).

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000067

PUBLICATION DATE: 77

TITLE: AMERICAN NATIONAL STANDARD FOR GRAY IRON AND DUCTILE IRON FITTINGS: 2 INCH THROUGH 48 INCH FOR WATER.

DESCRIPTOR: *CAST IRON PIPES; *IRON PIPES; *PIPE FITTINGS; *PIPES; *STANDARDS; DUCTILE IRON PIPES; EQUIPMENT; PLUMBING; REGULATIONS

DESCRIPTIVE NOTE: 66P. REPORT NO. 43110 (C110-77)

ABSTRACT: THIS STANDARD COVERS 2-48-IN. GRAY-IRON AND/OR DUCTILE-IRON FITTINGS TO BE USED WITH GRAY-IRON OR DUCTILE-IRON PIPE FOR WATER AND OTHER LIQUIDS. SPECIFICATIONS FOR FITTINGS WITH MECHANICAL JOINTS, BELL-AND SPIGOT JOINTS, AND FLANGE JOINTS ARE GIVEN IN THE TABLES. THIS STANDARD MAY ALSO BE USED FOR FITTINGS WITH PUSH-ON JOINTS OR SUCH OTHER JOINTS AS MAY BE AGREED UPON AT THE TIME OF PURCHASE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($5.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000068

PUBLICATION DATE: 72

TITLE: AMERICAN NATIONAL STANDARD FOR RUBBER GASKET JOINTS FOR CAST IRON DUCTILE IRON PRESSURE PIPE.

DESCRIPTOR: CAST IRON PIPES; *DESIGN; EQUIPMENT; *GASKETS; *PIPES; PLUMBING; REGULATIONS; *RUBBER GASKET JOINTS; *STANDARDS; IRON PIPES

DESCRIPTIVE NOTE: 16P. REPORT NO. 43111 (C111-72) (ANSI A21.11-1972)

ABSTRACT: THIS STANDARD COVERS RUBBER-GASKET JOINTS OF 2-48 IN. MECHANICAL JOINT AND 2-54 IN. PUSH-ON JOINT FOR CAST-IRON AND DUCTILE-IRON PRESSURE PIPE AND FITTINGS FOR WATER AND OTHER LIQUIDS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000069

PUBLICATION DATE: 71

TITLE: AMERICAN NATIONAL STANDARD FOR 2 INCH AND 2 1/4 INC CAST IRON PIPE: CENTRIFUGALLY CAST FOR WATER.

DESCRIPTOR: *CAST IRON PIPES; *DESIGN; EQUIPMENT; *IRO PIPES; *PIPES; PLUMBING; REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 12P. REPORT NO. 43112 (C112-71) (ANS A21.12-1971)

ABSTRACT: THIS STANDARD COVERS 2-IN. AND 2 1/4 IN. CAST IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINE MOLDS, FOR WATER OR OTHER LIQUIDS AT A WORKING PRESSURE O 250 PSI, WITH MECHANICAL JOINTS OR PUSH-ON JOINTS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000070

PUBLICATION DATE: 76

TITLE: AMERICAN NATIONAL STANDARD FOR THE THICKNESS DESIG OF DUCTILE IRON PIPE.

DESCRIPTOR: *DUCTILE IRON PIPES; *DESIGN; EQUIPMENT; *IRO PIPES; *PIPES; PLUMBING; REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 44P. REPORT NO. 43150 (C150-76)

ABSTRACT: THIS STANDARD GIVES THE DESIGN METHOD AND DESIG STRESSES TO DETERMINE THE THICKNESSES OF DUCTILE-IRON PIP COMPLYING WITH THE REQUIREMENTS OF AWWA C151 (ANSI A21.51) DUCTILE-IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS O SAND-LINED MOLDS, FOR WATER AND OTHER LIQUIDS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($6.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000071

PUBLICATION DATE: 76

TITLE: AMERICAN NATIONAL STANDARD FOR DUCTILE IRON PIP CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS.

DESCRIPTOR: *DESIGN; *DUCTILE IRON PIPES; EQUIPMENT; *IRO PIPES; *PIPES; PLUMBING; REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 28P. REPORT NO. 43151 (C151-76)

ABSTRACT: THIS STANDARD COVERS 3-IN. THROUGH 54-IN DUCTILE-IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS FOR WATER OR OTHER LIQUIDS WITH PUSH-ON JOINT AND MECHANICAL JOINTS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000072

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR STEEL WATER PIPE: 6 INCH AN LARGER.

DESCRIPTOR: DESIGN; EQUIPMENT; *PIPES; PLUMBING REGULATIONS; *STANDARDS; *STEEL PIPES; *WATER PIPES

DESCRIPTIVE NOTE: 24P. REPORT NO. 43200 (C200-75)

ABSTRACT: THIS STANDARD COVERS BUTT WELDED OR SEAMLES STEEL FABRICATED OR SPIRAL OR STRAIGHT SEAM MILL TYPE PIP SIX INCHES IN NOMINAL DIAMETER AND LARGER AND SPECIA SECTIONS INTENDED FOR TRANSMISSION AND DISTRIBUTION O WATER.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000073

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR CHLORINATED RUBBER/ALKYD PAINT SYSTEM FOR THE EXTERIOR OF ABOVE GROUND STEEL WATER PIPE.

DESCRIPTOR: DESIGN; EQUIPMENT; *PIPES; PLUMBING; *PAINTS; REGULATIONS; *STANDARDS; *STEEL PIPES; WATER PIPES

DESCRIPTIVE NOTE: 12P. REPORT NO. 43204 (C204-75)

ABSTRACT: THIS STANDARD COVERS A CHLORINATED RUBBER/ALKYD PAINT SYSTEM TO PROVIDE PROTECTION FROM CORROSION TO ABOVEGROUND STEEL WATER PIPING EXPOSED TO NORMAL URBAN, MARINE OR INDUSTRIAL ENVIRONMENTS. THIS PAINT SYSTEM IS NOT INTENDED FOR USE WHERE THERE IS EXPOSURE TO EXTREME CHEMICAL ENVIRONMENTS OR ON INTERIOR SURFACES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000074

PUBLICATION DATE: 73

TITLE: AWWA STANDARD FOR COAL TAR ENAMEL PROTECTIVE COATINGS FOR STEEL WATER PIPE.

DESCRIPTOR: *COAL TAR ENAMEL; *PIPES; *PROTECTIVE COATINGS; *STANDARDS; *STEEL PIPES; DESIGN; EQUIPMENT; PLUMBING; REGULATIONS; WATER PIPES

DESCRIPTIVE NOTE: 28P. REPORT NO. 43203 (C203-73)

ABSTRACT: THIS STANDARD PROVIDES FOR PROTECTIVE EXTERIOR COATINGS WITH HOT-APPLIED COAL-TAR ENAMEL AND HOT-APPLIED COAL-TAR TAPE FOR STEEL WATER PIPELINES INSTALLED IN ALL SOILS UNDER AVERAGE OR NORMAL CONSTRUCTION CONDITIONS; AND FOR PROTECTIVE INTERIOR LININGS OF STEEL WATER PIPELINES WITH HOT-APPLIED COAL-TAR ENAMEL WHEN THE TEMPERATURE OF THE WATER IN THE PIPE WILL NOT EXCEED 90F AND THE RATE OF FLOW WILL BE SUFFICIENT TO PREVENT STAGNATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000075

PUBLICATION DATE: 71

TITLE: AWWA STANDARD FOR CEMENT MORTAR PROTECTIVE LINING AND COATING FOR STEEL WATER PIPE: 4 INCH OR LARGER.

DESCRIPTOR: *CEMENT MORTAR; DESIGN; EQUIPMENT; *PIPES; PLUMBING; PIPE LININGS; *PROTECTIVE COATINGS; REGULATIONS; *STANDARDS; *STEEL PIPES

DESCRIPTIVE NOTE: 14P. REPORT 43205 (C205-71)

ABSTRACT: THIS STANDARD COVERS THE MATERIAL AND APPLICATION REQUIREMENTS TO PROVIDE PROTECTIVE LININGS AND COATINGS FOR STEEL WATER PIPE BY SHOP APPLICATION OF CEMENT MORTAR.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000076

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR FIELD WELDING OF STEEL WATER PIPE JOINTS.

DESCRIPTOR: *PIPES; *STANDARDS; *STEEL PIPES; *WELDING; DESIGN; EQUIPMENT; PLUMBING; REGULATIONS; WATER PIPES

DESCRIPTIVE NOTE: 12P. REPORT NO. 43206 (C206-75)

ABSTRACT: THIS STANDARD COVERS FIELD WELDING BY THE METAL ARC-WELDING PROCESS OF STEEL WATER PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C200. SUCH FIELD WELDING COVERS CIRCUMFERENTIAL JOINTS OF PIPE AND OTHER WELDING REQUIRED IN FIELD FABRICATION AND INSTALLATION OF SPECIALS AND APPURTENANCES. THE MAXIMUM WALL THICKNESS OF PIPE TO BE WELDED UNDER THIS STANDARD SHALL BE 1 1/4 IN.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000077

PUBLICATION DATE: 55

TITLE: AWWA STANDARD FOR STEEL PIPE FLANGES.

DESCRIPTOR: DESIGN; EQUIPMENT; *FLANGES; *PIPES; PLUMBING; *PIPE FLANGES; REGULATIONS; *STANDARDS; STEEL PIPES

DESCRIPTIVE NOTE: 8P. REPORT NO. 43207 (C207-55)

ABSTRACT: FLANGES IN THIS STANDARD ARE INTENDED FOR USE WITH STEEL PIPE MEETING THE REQUIREMENTS OF SPECIFICATIONS AWWA C200.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000078

PUBLICATION DATE: 59

TITLE: AWWA STANDARD FOR DIMENSIONS FOR STEEL WATER PIPE FITTINGS.

DESCRIPTOR: DESIGN; EQUIPMENT; *PIPES; PLUMBING; *PIPE FITTINGS; REGULATIONS; *STANDARDS; *STEEL PIPES

DESCRIPTIVE NOTE: 12P. REPORT NO. 43208 (C208-59)

ABSTRACT: THIS STANDARD COVERS OVERALL DIMENSIONS FOR STEEL WATER PIPE FITTINGS. IT IS NOT INTENDED TO COVER THICKNESS, SHAPE, WELDING, ATTACHMENTS, AND TOLERANCE OF FITTINGS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000079

PUBLICATION DATE: 74

TITLE: AWWA STANDARD FOR REINFORCED CONCRETE PRESSURE PIPE: STEEL CYLINDER TYPE FOR WATER AND OTHER LIQUIDS.

DESCRIPTOR: *CONCRETE PIPES; DESIGN; EQUIPMENT; *PIPES; *PLUMBING; REGULATIONS; *STANDARDS; *WATER PIPES

DESCRIPTIVE NOTE: 24P. REPORT NO. 43300 (C300-74)

ABSTRACT: THIS STANDARD COVERS THE MANUFACTURE OF REINFORCED CONCRETE CYLINDER PIPE THAT IS NOT PRESTRESSED OR PRETENSIONED AND IS IN SIZES FROM 24 TO 144 IN., INCLUSIVE. THIS TYPE OF PIPE IS DESIGNED FOR WORKING PRESSURES OF 40 PSI AND HIGHER THAT ARE COMBINED WITH EXTERNAL LOADING CONDITIONS DESIGNATED BY THE PURCHASER. THIS STANDARD DOES NOT INCLUDE REQUIREMENTS FOR HANDLING, DELIVERY, LAYING, FIELD TESTING, OR DISINFECTION OF THE PIPE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000080

PUBLICATION DATE: 72

TITLE: AWWA STANDARD FOR PRESTRESSED CONCRETE PRESSURE PIPE: STEEL CYLINDER TYPE FOR WATER AND OTHER LIQUIDS.

DESCRIPTOR: *CONCRETE PIPES; DESIGN; EQUIPMENT; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER PIPES

DESCRIPTIVE NOTE: 28P. REPORT NO. 43301 (C301-72)

ABSTRACT: THIS STANDARD COVERS THE MANUFACTURE OF CIRCUMFERENTIALLY PRESTRESSED CONCRETE WATER PIPE WITH A STEEL CYLINDER AND WIRE REINFORCEMENT IN SIZES FROM 16 TO 144 IN., INCLUSIVE. THE STANDARD COVERS TWO TYPES OF PRESTRESSED PIPE: (1)LINED-CYLINDER PIPE AND (2)EMBEDDED-CYLINDER PIPE. THIS STANDARD DOES NOT INCLUDE REQUIREMENTS FOR HANDLING, DELIVERY, LAYING, FIELD TESTING, OR DISINFECTION OF THE PIPE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000081

PUBLICATION DATE: 74

TITLE: AWWA STANDARD FOR REINFORCED CONCRETE WATER PIPE: NONCYLINDER TYPE-NOT PRESTRESSED.

DESCRIPTOR: *CONCRETE PIPES; DESIGN; EQUIPMENT; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER PIPES

DESCRIPTIVE NOTE: 24P. REPORT NO. 43302 (C302-74)

ABSTRACT: THIS STANDARD COVERS THE MANUFACTURE OF CIRCUMFERENTIALLY REINFORCED CONCRETE PRESSURE PIPE, WITHOUT A STEEL CYLINDER AND NOT PRESTRESSED, IN SIZES FROM 12 TO 144 IN., INCLUSIVELY. THIS TYPE OF PIPE IS DESIGNED FOR WORKING PRESSURES UP TO 55 PSI COMBINED WITH EXTERNAL LOADING CONDITIONS DESIGNED BY THE PURCHASER. THIS STANDARD DOES NOT INCLUDE REQUIREMENTS FOR HANDLING, DELIVERY, LAYING, FIELD TESTING, OR DISINFECTION OF THE PIPE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000082

PUBLICATION DATE: 70

TITLE: AWWA STANDARD FOR REINFORCED CONCRETE WATER PIPE: STEEL CYLINDER TYPE-PRETENSIONED.

DESCRIPTOR: *CONCRETE PIPES; DESIGN; EQUIPMENT; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER PIPES

DESCRIPTIVE NOTE: 20P. REPORT NO. 43303 (C303-70)

ABSTRACT: THIS STANDARD COVERS THE MANUFACTURE OF CIRCUMFERENTIALLY PRETENSIONED REINFORCED CONCRETE WATER PIPE WITH A STEEL CYLINDER AND ROD REINFORCEMENT, IN SIZES FROM 60 TO 42 IN., INCLUSIVE AND FOR DESIGN PRESSURES TO A MAXIMUM OF 400 PSI. THE STANDARD DOES NOT INCLUDE SPECIFICATIONS RELATED TO HANDLING, DELIVERY, LAYING, FIELD TESTING, OR DISINFECTION OF THE PIPE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000083

PUBLICATION DATE: 77

TITLE: AWWA STANDARD FOR ASBESTOS CEMENT PRESSURE PIPE FOR WATER AND OTHER LIQUIDS.

DESCRIPTOR: *ASBESTOS CEMENT PIPES; *PIPES; *STANDARDS; *WATER PIPES; DESIGN; EQUIPMENT; PLUMBING; REGULATIONS

DESCRIPTIVE NOTE: 16P. REPORT NO. 43 400 (C400-77)

ABSTRACT: THIS STANDARD COVERS THREE PRESSURE CLASSES OF TYPE I AND TYPE II ASBESTOS-CEMENT PIPE, 4 IN. -24 IN. IN DIAMETER, FOR WATER AND OTHER LIQUIDS, TO BE LAID UNDERGROUND IN PUBLIC AND PRIVATE RIGHTS-OF WAY. THE PRESSURE CLASS DESIGNATIONS OF CLASS 100, CLASS 150, AND CLASS 200 ARE THE SAME AS THOSE USED IN AWWA C401 (FORMERLY AWWA M2), "STANDARD PRACTICE FOR THE SELECTION OF ASBESTOS-CEMENT WATER PIPE".

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000084

PUBLICATION DATE: 77

TITLE: AWWA STANDARD PRACTICE FOR THE SELECTION OF ASBESTOS CEMENT WATER PIPE.

DESCRIPTOR: *ASBESTOS CEMENT PIPES; DESIGN; EQUIPMENT; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER PIPES

DESCRIPTIVE NOTE: 28P. REPORT NO. 43401 (C401-64)

ABSTRACT: THIS HANDBOOK HAS BEEN PREPARED SO THAT DESIGN ENGINEERS MAY QUICKLY DETERMINE THE CORRECT CLASS OF ASBESTOS-CEMENT PIPE TO USE UNDER VARIOUS COMBINATIONS OF INTERNAL PRESSURE AND EXTERNAL LOADING. CURVES ARE INCLUDED IN THIS HANDBOOK TO EXPEDITE THE SELECTION OF THE CORRECT PIPE CLASS. DETAILED ANALYSIS OF THE VARIOUS STRUCTURAL FACTORS AFFECTING PIPE DESIGN AND SELECTION ARE TREATED UNDER SEPARATE HEADINGS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000085

PUBLICATION DATE: 71

TITLE: AWWA STANDARD FOR GATE VALVES, 3 INCH THROUGH 48 INCH, FOR WATER AND OTHER LIQUIDS.

DESCRIPTOR: DESIGN; EQUIPMENT; *GATE VALVES; *PLUMBING; *REGULATIONS; *STANDARDS; *VALVES; WATER PIPES

DESCRIPTIVE NOTE: 16P. REPORT NO. 43500 (C500-71)

ABSTRACT: THIS STANDARD COVERS IRON-BODY, BRONZE-MOUNTED, NONRISING STEM GATE VALVES, 3 IN. THROUGH 48 IN. IN DIAMETER, WITH EITHER DOUBLE-DISC GATES HAVING PARALLEL OR INCLINED SEATS, OR SOLID-WEDGE GATES. SUCH VALVES ARE SUITABLE FOR USE IN APPROXIMATELY LEVEL SETTINGS ON BURIED WATER DISTRIBUTION PIPE LINES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000086

PUBLICATION DATE: 67

TITLE: AWWA STANDARD FOR SLUICE GATES.

DESCRIPTOR: DESIGN; *EQUIPMENT; REGULATIONS; *STANDARDS; *SPILLWAYS; *SLUICE GATES

DESCRIPTIVE NOTE: 20P. REPORT NO. 43501 (C501-67)

ABSTRACT: THIS STANDARD COVERS WALL THIMBLE, VERTICALLY-MOUNTED SLUICE GATES DESIGNED FOR EITHER SEATING HEAD OR UNSEATING HEAD OR BOTH, IN ORDINARY WATER SUPPLY OR WASTEWATER SERVICE. THESE SLUICE GATES MAY BE USED FOR SQUARE, RECTANGULAR, OR ROUND OPENINGS. THEY MAY BE OF THE CONVENTIONAL-CLOSURE OR THE FLUSH-BOTTOM CLOSURE TYPE. THIS STANDARD ALSO COVERS SLUICE GATE OPERATING MECHANISMS OF THE MANUAL, ELECTRIC-MOTOR, AND HYDRAULIC-CYLINDER TYPES, TOGETHER WITH STANDARD ACCESSORIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000097

PUBLICATION DATE: 73

TITLE: AWWA STANDARD FOR DRY BARREL FIRE HYDRANTS.

DESCRIPTOR: *DESIGN; *EQUIPMENT; *FIRE HYDRANTS; PLUMBING; *REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 16P. REPORT NO. 43502 (C502-73)

ABSTRACT: THIS STANDARD COVERS POST-TYPE, DRY-BARREL HYDRANTS WITH COMPRESSION (OPENING AGAINST OR WITH THE PRESSURE) OR GATE SHUTOFF FOR USE IN PUBLIC WATER SUPPLY SYSTEMS IN ALL CLIMATES, INCLUDING THOSE WHERE FREEZING OCCURS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000088

PUBLICATION DATE: 75

TITLE: AWWA STANDARD FOR WET BARREL FIRE HYDRANTS FO ORDINARY WATER WORKS SERVICE.

DESCRIPTOR: *DESIGN; *EQUIPMENT; *FIRE HYDRANTS; *PLUMBING; *STANDARDS; REGULATIONS

DESCRIPTIVE NOTE: 20P. REPORT NO. 45503 (C405-75)

ABSTRACT: THIS STANDARD EMBRACES THE VARIOUS TYPES AN CLASSES OF WET-BARREL (CALIFORNIA TYPE) HYDRANTS FOR GENERA WATER WORKS SERVICE. THE ITEMS DESCRIBED ARE HYDRANTS WIT INDEPENDENTLY CONTROLLED COMPRESSION TYPE (WORKING AGAINST OR WITH THE PRESSURE) VALVES FOR EACH OUTLET, IN WHICH AL VALVE WORKING PARTS ARE MOUNTED ON THE HYDRANT ABOVE GROUN LINE. WET-BARREL HYDRANTS ARE INTENDED FOR USE ONLY I CLIMATES WHERE FREEZING DOES NOT OCCUR.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINC AVE. DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000089

PUBLICATION DATE: 74

TITLE: AWWA STANDARD FOR RUBBER SEATED BUTTERFLY VALVES.

DESCRIPTOR: *BUTTERFLY VALVES; *EQUIPMENT; PLUMBING; REGULATIONS; *STANDARDS; *VALVES; DESIGN

DESCRIPTIVE NOTE: 24P. REPORT NO. 43504 (C504-74)

ABSTRACT: THIS STANDARD COVERS CAST-IRON AND DUCTILE-IRON BODY, RUBBER-SEATED, TIGHT-CLOSURE BUTTERFLY VALVES, 3-72 IN. IN SIZE, WITH VARIOUS BODY TYPES AND BODY ENDS FO MAXIMUM SHUTOFF PRESSURES AND OPERATING TORQUES, AS INDICATED IN TABLE I, AND FOR FRESH WATER HAVING A PH GREATER THAN 6 AND TEMPERATURES GENERALLY LESS THAN 125 F.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000090

PUBLICATION DATE: 69

TITLE: AWWA STANDARD FOR BACKFLOW PREVENTION DEVICES: REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE TYPES.

DESCRIPTOR: *CROSS-CONNECTIONS; *DESIGN; EQUIPMENT; PLUMBING; REGULATIONS; *STANDARDS; *VALVES; *BACKFLOW PREVENTION

DESCRIPTIVE NOTE: 12P. REPORT NO. 43506 (C506-69)

ABSTRACT: THIS STANDARD COVERS TWO TYPES OF BACKFLOW PREVENTION DEVICES: REDUCED PRESSURE PRINCIPLE TYPE AND DOUBLE CHECK VALVE TYPE. THE DEVICES SHALL BE DESIGNED FOR OPERATION ON COLD WATER LINES. THEY SHALL BE CAPABLE OF WITHSTANDING A WATER WORKING PRESSURE OF 150 PSI WITHOUT DAMAGE TO WORKING PARTS OR IMPAIRMENT OF FUNCTION.

AVAILABILITY: AMERICAN WATER WOPKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000091

PUBLICATION DATE: 77

TITLE: AWWA STANDARD FOR INSTALLATION OF CAST IRON WATER MAINS.

DESCRIPTOR: *CAST IRON PIPES; EQUIPMENT; *IRON PIPES; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER MAINS

DESCRIPTIVE NOTE: 40P. REPORT NO. 43600 (C600-77)

ABSTRACT: THIS STANDARD COVERS THE ALIGNMENT, EXCAVATION, LAYING, BLOCKING, ANCHORAGE, TESTING, INSPECTION AND BACKFILL FOR THE INSTALLATION OF CAST IRON PIPE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000092

PUBLICATION DATE: 68

TITLE: AWWA STANDARD FOR DISINFECTING WATER MAINS.

DESCRIPTOR: CAST IRON PIPES; *DISINFECTION; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *IRON PIPES; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER MAINS

DESCRIPTIVE NOTE: 12P. REPORT NO. P3601 (C601-68)

ABSTRACT: IT IS THE INTENT OF THIS STANDARD TO PRESENT ESSENTIAL PROCEDURES FOR DISINFECTING NEW AND REPAIRED WATER MAINS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000093

PUBLICATION DATE: 76

TITLE: AWWA STANDARD FOR CEMENT MORTAR LINING OF WATER PIPES IN PLACE.

DESCRIPTOR: CAST IRON PIPES; *CEMENT MORTAR LININGS; EQUIPMENT; *IRON PIPES; *PIPE LININGS; *PIPES; PLUMBING; REGULATIONS; *STANDARDS

DESCRIPTIVE NOTE: 20P. REPORT NO. 43602 (C602-76)

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 (*3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000094

PUBLICATION DATE: 65

TITLE: AWWA STANDARD FOR INSTALLATION OF ASBESTOS CEMENT WATER PIPE.

DESCRIPTOR: *ASBESTOS CEMENT PIPES; *CONSTRUCTION; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER PIPES

DESCRIPTIVE NOTE: 16P. REPORT NO. 43603 (C603-65)

ABSTRACT: THIS STANDARD IS OFFERED AS A GUIDE TO GOOD PRACTICES IN THE INSTALLATION OF ASBESTOS-CEMENT WATER PIPE AND CAST-IRON FITTINGS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000095

PUBLICATION DATE: 77

TITLE: AWWA STANDARD FOR COLD WATER METERS: DISPLACEMENT TYPE.

DESCRIPTOR: *DESIGN; EQUIPMENT; *PLUMBING; *REGULATIONS; *STANDARDS; *WATER METERS

DESCRIPTIVE NOTE: 16P. REPORT NO. 43700 (C700-77)

ABSTRACT: THIS STANDARD COVERS THE VARIOUS TYPES AND CLASSES OF COLD WATER DISPLACEMENT METERS IN SIZES 5/8 IN. THROUGH 6 IN., AND THE MATERIALS AND WORKMANSHIP EMPLOYED IN THEIR FABRICATION. THE DISPLACEMENT METERS COVERED, KNOWN AS NUTATING- DISC OR OSCILLATING-PISTON METERS, ARE POSITIVE IN ACTION, IN THAT THE PISTONS AND DISCS DISPLACE OR CARRY OVER A FIXED QUANTITY OF WATER FOR EACH NUTATION OR OSCILLATION WHEN OPERATED UNDER POSITIVE PRESSURE.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000096

PUBLICATION DATE: 70

TITLE: AWWA STANDARD FOR COLD WATER METERS: TURBINE TYPE FOR CUSTOMER SERVICE.

DESCRIPTOR: *DESIGN; *EQUIPMENT; PLUMBING; *REGULATIONS; *STANDARDS; *WATER METERS

DESCRIPTIVE NOTE: 12P. REPORT NO. 43701 (C701-70)

ABSTRACT: THIS STANDARD COVERS THE VARIOUS TYPES AND CLASSES OF COLD-WATER TURBINE METERS IN SIZES 1 1/2 IN.-12 IN. FOR WATER WORKS CUSTOMER SERVICE, AND THE MATERIALS AND WORKMANSHIP EMPLOYED IN THEIR FABRICATION. THESE METERS REGISTER BY RECORDING THE REVOLUTIONS OF A TURBINE SET IN MOTION BY THE FORCE OF FLOWING WATER STRIKING THE BLADES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000097

PUBLICATION DATE: 70

TITLE: AWWA STANDARD FOR COLD WATER METERS: COMPOUND TYPE.

DESCRIPTOR: *DESIGN; *EQUIPMENT; *REGULATIONS; *STANDARDS; *WATER METERS; PLUMBING

DESCRIPTIVE NOTE: 12P. REPORT NO. 43702 (C702-70)

ABSTRACT: THIS STANDARD COVERS THE VARIOUS TYPES AND CLASSES OF COLD-WATER COMPOUND TYPE METERS IN SIZES 2 IN. TO 10 IN. AND THE MATERIALS AND WORKMANSHIP EMPLOYED IN THEIR FABRICATION. COMPOUND METERS SHALL CONSIST OF A COMBINATION OF A MAIN LINE METER OF THE TURBINE TYPE FOR MEASURING HIGH RATES OF FLOW AND A BY-PASS METER OF THE DISPLACEMENT TYPE FOR MEASURING LOW RATES OF FLOW WITH AN AUTOMATIC VALVE MECHANISM FOR DIVERTING LOW RATES OF FLOW THROUGH THE BY-PASS METER.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000098

PUBLICATION DATE: 70

TITLE: AWWA STANDARD FOR COLD WATER METERS: FIRE SERVICE TYPE.

DESCRIPTOR: *DESIGN; *EQUIPMENT; *REGULATIONS; *STANDARDS; *WATER METERS; PLUMBING

DESCRIPTIVE NOTE: 12P. REPORT NO. P3703 (C703-70)

ABSTRACT: THIS STANDARD COVERS THE VARIOUS TYPES AND CLASSES OF COLD-WATER FIRE SERVICE TYPE METERS IN SIZES 3 IN. THROUGH 10 IN. AND THE MATERIALS AND WORKMANSHIP EMPLOYED IN THEIR FABRICATION. FIRE SERVICE METERS SHALL CONSIST OF A COMBINATION OF A MAIN LINE METER OF THE PROPORTIONAL TYPE, HAVING UNOBSTRUCTED PASSAGEWAY OF ESSENTIALLY THE FULL PIPE SIZE, FOR MEASURING HIGH RATES OF FLOW; AND A BYPASS METER OF THE COMPOUND OR POSITIVE DISPLACEMENT TYPE FOR MEASURING LOW RATES OF FLOW, WITH AN AUTOMATIC VALVE MECHANISM FOR DIVERTING LOW RATES OF FLOW THROUGH THE BYPASS METER.

AVAILABILITY: AMERICAN WATER WORKS ASSOC. 6666 WEST QUINCY AVE. DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000099

PUBLICATION DATE: 70

TITLE: AWWA STANDARD FOR COLD WATER METERS: PROPELLER TYPE FOR MAIN LINE APPLICATIONS.

DESCRIPTOR: *DESIGN; *EQUIPMENT; PLUMBING; *REGULATIONS; *STANDARDS; *WATER METERS

DESCRIPTIVE NOTE: 12P. REPORT NO. 43704 (C704-70)

ABSTRACT: THIS STANDARD COVERS THE VARIOUS TYPES AND CLASSES OF COLD-WATER PROPELLER METERS IN SIZES 2 IN. THROUGH 36 IN. FOR MAIN LINE APPLICATIONS. THESE METERS REGISTER BY RECORDING THE REVOLUTIONS OF A PROPELLER SET IN MOTION BY THE FORCE OF FLOWING WATER STRIKING THE BLADES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000100

PUBLICATION DATE: 72

TITLE: AWWA STANDARD FOR DIRECT READING REMOTE REGISTRATION SYSTEMS FOR COLD WATER METERS.

DESCRIPTOR: *DESIGN; EQUIPMENT; *INSTRUMENTATION; PLUMBING; *REGULATIONS; *STANDARDS; *WATER METERS

DESCRIPTIVE NOTE: 12P. REPORT NO. 43706 (C706-72)

ABSTRACT: THIS STANDARD COVERS DIRECT-READING REMOTE REGISTRATION SYSTEMS FOR USE ON COLD-WATER METERS FOR WATER UTILITY CUSTOMER SERVICE, AND THE MATERIALS AND WORKMANSHIP EMPLOYED IN THEIR FABRICATION AND ASSEMBLY.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000101

PUBLICATION DATE: 66

TITLE: AWWA STANDARD FOR THREADS FOR UNDERGROUND SERVICE LINE FITTINGS.

DESCRIPTOR: *DESIGN; EQUIPMENT; *PIPE FITTINGS; *PIPES; PLUMBING; REGULATIONS; *STANDARDS; *WATER MAINS; *WATER PIPES

DESCRIPTIVE NOTE: 16P. REPORT NO. 43800 (C800-66)

ABSTRACT: THE FITTINGS COVERED BY THESE SPECIFICATIONS ARE THOSE IN GENERAL USE IN THE WATER UTILITY FIELD FOR THE INSTALLATION OF CORPORATION STOPS IN WATER MAINS AND THE SERVICE PIPE EXTENDING FROM THE MAIN TO THE CUSTOMER'S METER OR CURB STOP FOR THE PURPOSE OF SUPPLYING WATER TO HIS PREMISES.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000102

PUBLICATION DATE: 73

TITLE: AWWA STANDARD FOR STEEL TANKS, STANDPIPES, RESERVOIRS, AND ELEVATED TANKS FOR WATER STORAGE.

DESCRIPTOR: *DESIGN; EQUIPMENT; PLUMBING; REGULATIONS; *STANDARDS; *STEEL TANKS; *TANKS; *WATER TANKS

DESCRIPTIVE NOTE: 72P. REPORT NO. 44100 (D100-73)

ABSTRACT: THIS STANDARD COVERS THE MATERIALS, DESIGN, ACCESSORIES, WELDING, SHOP FABRICATION, ERECTION, INSPECTION, TESTING AND FOUNDATION DESIGN FOR WELDED STEEL ELEVATED TANKS, STANDPIPES, AND RESERVOIRS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000103

PUBLICATION DATE: 53

TITLE: AWWA STANDARD FOR INSPECTING AND REPAIRING STEEL TANKS, STANDPIPES, RESERVOIRS, AND ELEVATED TANKS.

DESCRIPTOR: *INSPECTIONS; *MAINTENANCE; REGULATIONS; *STANDARDS; *TANKS; *WATER TANKS

DESCRIPTIVE NOTE: 12P. REPORT NO. 44101 (D101-53)

ABSTRACT: EVERY STEEL WATER STORAGE TANK, STANDPIPE OR RESERVOIR SHOULD BE CAREFULLY INSPECTED PRIOR TO REPAIR AND/OR REPAINTING AND AT ANY TIME WHEN LEAKAGE OR SOME OTHER APPARENT DETERIORATION IS OBSERVED. IN ANY EVENT, ALL WATER TANKS SHOULD BE THOROUGHLY INSPECTED AT INTERVALS OF NOT MORE THAN FIVE YEARS. IT IS THE INTENT OF THIS DOCUMENT TO DEFINE THE REQUISITE QUALIFICATIONS OF THE INSPECTING AGENCY, THE TYPE OF INSPECTION TO BE MADE AND THE DATA CONSIDERED ESSENTIAL.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($3.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000104

PUBLICATION DATE: 64

TITLE: AWWA STANDARD FOR PAINTING AND REPAINTING STEEL TANKS, STANDPIPES, RESERVOIRS, AND ELEVATED TANKS.

DESCRIPTOR: *MAINTENANCE; *PAINTING; REGULATIONS; *STANDARDS; *STEEL TANKS; *TANKS; *WATER TANKS

DESCRIPTIVE NOTE: 36P. REPORT NO. 44102 (D102-64)

ABSTRACT: THIS STANDARD COVERS EXTERIOR AND INTERIOR COATINGS FOR STEEL TANKS, STANDPIPES, RESERVOIRS AND ELEVATED TANKS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($4.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000105

PUBLICATION DATE: 77

TITLE: AMERICAN NATIONAL STANDARD FOR DEEP WELL VERTICAL TURBINE PUMPS: LINE SHAFT AND SUBMERSIBLE TYPES.

DESCRIPTOR: *DESIGN; EQUIPMENT; *PUMPS; REGULATIONS; *STANDARDS; *TURBINE PUMPS; *WATER WELLS

DESCRIPTIVE NOTE: 56P. REPORT NO. 45101 (E101-77)

ABSTRACT: THIS STANDARD PROVIDES MINIMUM REQUIREMENTS FOR VERTICAL TURBINE PUMPS LINE SHAFT AND SUBMERSIBLE UTILIZING DISCHARGE COLUMN PIPE UP TO AND INCLUDING 16 INCHES IN SIZE. THE STANDARD PERTAINS TO EQUIPMENT SUITABLE FOR PUMPING WATER FROM WELLS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($5.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000106

PUBLICATION DATE: 74

TITLE: STORY OF WATER SUPPLY.

DESCRIPTOR: *ELEMENTARY SECONDARY EDUCATION; *INSTRUCTIONAL MATERIALS; *PUBLIC RELATIONS; *UTILITIES; *WATER SUPPLY; WATER TREATMENT

DESCRIPTIVE NOTE: 16P. NO. 70001; ILLUSTRATED BOOKLET

ABSTRACT: PICTORIAL PRESENTATION OF DEVELOPMENT OF WATER SYSTEMS IN U.S.; TREATMENT PROCEDURES AND ACCOMPLISHMENTS OF WATER SUPPLY INDUSTRY. AIMED AT ELEMENTARY AND JR. HIGH STUDENTS

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 (FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000110

PUBLICATION DATE: 73

TITLE: EMERGENCY PLANNING FOR WATER UTILITY MANAGEMENT.

DESCRIPTOR: *ACCIDENT PREVENTION; *DISASTERS; *EMERGENCIES; FACILITIES; INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PLANNING; POST SECONDARY EDUCATION; *SAFETY; *UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 102P. AWWA REPORT M19

ABSTRACT: DISCUSSES DISASTERS (NATURAL AND MAN MADE) AN THEIR EFFECTS, VULNERABILITY ASSESSMENT, PROTECTIV MEASURES, EMERGENCY OPERATIONS PLANNING, AND TRAINING. IMPACT ON PLANT CONSTRUCTION, WATERSHEDS, RESERVOIRS STORAGE TANKS, PIPE SYSTEM, CONTAMINANTS, POWER, COMMUNICATION, AND TRANSPORTATION. PROTECTIVE AND EMERGENC MEASURES COVERED. MODEL CONTINGENCY PLANS, CODE "15 SIGNALS, THE PHONETIC ALPHABET, AND TOXICITY LEVEL CONTAINED IN THE APPENDICES. TABLES, GRAPHS, BIBL.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($8.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000111

PUBLICATION DATE: 73

TITLE: WATER CHLORINATION: PRINCIPLES AND PRACTICES.

DESCRIPTOR: *CHEMICAL TREATMENT; *CHLORINATION; *CHLORIN RESIDUALS; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER) POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 92P. MANUAL M20, PAPER BOUND, ORDE MANUAL NO. 30020

ABSTRACT: THEORY, APPLICATION AND USE OF CHLORINE RELATIN TO WATER TREATMENT AND DISTRIBUTION SYSTEMS. EMPHASIZES SAF HANDLING PRACTICES AND CHLORINATION EQUIPMENT. MANUA PREPARED TO BE USED IN CONJUNCTION WITH AWWA CHLORINATIO WORKSHOP FOR OPERATORS.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINC AVE., DENVER, CO 80235 ($7.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW000112

PUBLICATION DATE: 49

TITLE: SEWAGE WORKS JOURNAL: TWENTY YEAR INDEX, 1929-1949.

DESCRIPTOR: *BIBLIOGRAPHIES; *INDEXES; INDUSTRIAL WASTES *PERIODICALS; *SEWAGE WORKS; *WATER TREATMENT; *WASTEWATER TREATMENT

ABSTRACT: THIS INDEX TO SEWAGE WORKS JOURNAL 1928-48 IS CROSS REFERENCED BY AUTHOR, TITLE, AND SUBJECT.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($6.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000113

PUBLICATION DATE: 59

TITLE: SEWAGE AND INDUSTRIAL WASTES: TEN YEAR INDEX, 1949-1958.

DESCRIPTOR: *BIBLIOGRAPHIES; *INDEXES; *INDUSTRIAL WASTES; *PERIODICALS; *SEWAGE WORKS; *WATER TREATMENT; *WASTEWATER TREATMENT

ABSTRACT: THIS INDEX TO SEWAGE AND INDUSTRIAL WASTES 1949-58 IS CROSS REFERENCED BY AUTHOR, TITLE, AND SUBJECT.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NE, WASHINGTON, D.C. 20016 ($6.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000114

PUBLICATION DATE: 4

TITLE: WATER POLLUTION CONTROL FEDERATION JOURNAL: FIVE YEAR INDEX, 1959-1963.

DESCRIPTOR: *BIBLIOGRAPHIES; *INDEXES; INDUSTRIAL WASTES; *PERIODICALS; WATER QUALITY; WATER TREATMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

ABSTRACT: THIS INDEX TO JOURNAL WATER POLLUTION CONTROL FEDERATION 1959-63 IS CROSS REFERENCED BY AUTHOR, TITLE, AND SUBJECT.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($6.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000115

PUBLICATION DATE: 69

TITLE: WATER POLLUTION CONTROL FEDERATION JOURNAL: FIVE YEAR INDEX, 1964-1968.

DESCRIPTOR: *BIBLIOGRAPHIES; *INDEXES; INDUSTRIAL WASTES; *PERIODICALS; WATER QUALITY; WATER TREATMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1P.

ABSTRACT: THIS INDEX TO JOURNAL WATER POLLUTION CONTROL FEDERATION 1964-68 IS CROSS REFERENCED BY AUTHOR, TITLE, AND SUBJECT.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($7.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000116

PUBLICATION DATE: 75

TITLE: SAFETY IN WASTEWATER WORKS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SAFETY; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 56P. MOP REPORT NO. 1

ABSTRACT: INCLUDES INFORMATION ON SAFE PRACTICES IN THE DESIGN, OPERATION, AND MAINTENANCE OF WASTEWATER COLLECTION AND TREATMENT SYSTEMS. AREAS DISCUSSED INCLUDE RESPONSIBILITIES, SAFETY PROGRAMS, OPERATIONS AND MAINTENANCE, NOXIOUS GASES AND VAPORS, OXYGEN DEFICIENCY, SAFETY PRACTICES, EQUIPMENT, ACCIDENT REPORTING, INVESTIGATION AND ANALYSIS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($2.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000117

PUBLICATION DATE: 72

TITLE: UTILIZATION OF MUNICIPAL WASTEWATER SLUDGE.

DESCRIPTOR: ECONOMICS; *FERTILIZERS; *INSTRUCTIONAL MATERIALS; LAND APPLICATION; *MUNICIPAL WASTES; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; PUBLIC HEALTH; *SLUDGE; *WASTEWATER SLUDGE; *WASTEWATER DISPOSAL

DESCRIPTIVE NOTE: MOP REPORT NO. 2

ABSTRACT: SLUDGE UTILIZATION PRACTICES ARE DESCRIBED IN TERMS OF SOIL CONDITIONING, FERTILIZATION, AND DISPOSAL.

HYGIENIC ASPECTS, ECONOMIC CONSIDERATIONS, MARKETING TREATED SLUDGE, HEAT DRYING, COMPOSTING, AND SLUDGE CHARACTERISTICS ARE DISCUSSED.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($4.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000118

PUBLICATION DATE: 75

TITLE: REGULATION OF SEWER USE.

DESCRIPTOR: *ADMINISTRATIVE AGENCIES; *COLLECTION SYSTEMS; ECONOMICS; *INDUSTRIAL WASTES; *LAWS; *REGULATIONS; *SEWERS; *UTILITIES; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: MOP REPORT NO. 3

ABSTRACT: THE PUBLIC BODY CHARGED WITH CONTROL OF A COLLECTION SYSTEM HAS AN OBLIGATION TO KEEP THE SYSTEM IN CONDITION TO SERVE THE USER. NOT ONLY IS PROPER MAINTENANCE REQUIRED BUT ALSO LEGALLY CONSTITUTED GUIDELINES FOR USE OF THE SYSTEM. THE MANUAL PRESENTS THE CASE FOR SUCH REGULATION THROUGH THE PRESENTATION OF A MODEL ORDINANCE AND DETAILED DISCUSSION OF ITS COMPONENT PARTS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. ($2.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000119

PUBLICATION DATE: 71

TITLE: AERATION IN WASTEWATER TREATMENT.

DESCRIPTOR: *AERATION; *ACTIVATED SLUDGE; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: MOP REPORT NO. 5

ABSTRACT: INTENDED TO PROVIDE DESIGNERS, OPERATORS, AND MAINTENANCE PERSONNEL WITH THE FUNDAMENTAL THEORY AND OPERATIONAL ASPECTS OF AERATION.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($6.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000120

PUBLICATION DATE: 76

TITLE: UNITS OF EXPRESSION FOR WASTES AND WASTE TREATMENT.

DESCRIPTOR: *ARITHMETIC; *DATA EVALUATION; *INSTRUCTIONAL MATERIALS; *MEASUREMENT; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *TERMINOLOGY; *WASTES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: MOP REPORT NO. 6

ABSTRACT: UNITS OF EXPRESSION ARE RECOMMENDED FOR PERTINENT FACTORS IN CHARACTERIZATION AND TREATMENT OF WASTES. THE UNITS ARE RECOMMENDED IN THE HOPE THAT THEY WILL BECOME STANDARD THROUGH VOLUNTARY ACCEPTANCE AND USE.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($4.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000121

PUBLICATION DATE: 66

TITLE: SEWER MAINTENANCE.

DESCRIPTOR: *COLLECTION SYSTEMS; DESIGN; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WASTEWATER); *SEWERS; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: MOP REPORT NO. 7

ABSTRACT: GUIDE TO MAINTAINING A COLLECTION SYSTEM IN SERVICEABLE CONDITION. OUTLINES THE NEED FOR MAINTENANCE, DESIGN CONSIDERATIONS, SETTING UP A MAINTENANCE ORGANIZATION AND EQUIPMENT NEEDS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($3.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000124

PUBLICATION DATE: 71

TITLE: UNIFORM SYSTEM OF ACCOUNTS FOR WASTEWATER UTILITIES.

DESCRIPTOR: *ACCOUNTING; *BUDGETING; COST EFFECTIVENESS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MUNICIPALITIES; *POST SECONDARY EDUCATION; *UTILITIES; WASTE DISPOSAL; WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); SANITARY SEWERS; *WASTEWATER TREATMENT; *RECORDS; *MANAGEMENT

DESCRIPTIVE NOTE: 73P. MOP REPORT NO. 10

ABSTRACT: THIS GUIDE PROVIDES INFORMATION ON ESTABLISHING AND OPERATING AN ACCOUNTING SYSTEM FOR PUBLICLY-OWNED WASTEWATER SYSTEMS. CHAPTER 1 DISCUSSES THE ORIGIN, NATURE, AND MECHANICS OF ACCOUNTING. CHAPTER 2 CONSIDERS THE APPLICATION OF THESE PRINCIPLES TO THE ADMINISTRATION OF WASTEWATER SYSTEMS. THE THIRD CHAPTER IS DEVOTED TO THE PRESENTATION OF THE "UNIFORM SYSTEM" WHICH INCLUDES NEARLY ALL OF THE ACCOUNTS WHICH MAY BE REQUIRED BY SEWER UTILITIES. A SAMPLE SYSTEM IS DEVELOPED FOR A MEDIUM-SIZED FACILITY IN CHAPTER 4. A GLOSSARY OF IMPORTANT TERMS IS INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., WASHINGTON, D. C. 20037 ($4.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000126

PUBLICATION DATE: 68

TITLE: ANAEROBIC SLUDGE DIGESTION.

DESCRIPTOR: *ANAEROBIC DIGESTION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SLUDGE DIGESTION; *SLUDGE; *WASTEWATER TREATMENT; WASTEWATER SLUDGE

DESCRIPTIVE NOTE: MOP REPORT NO. 16

ABSTRACT: DESIGNED TO PROVIDE TREATMENT PLANT OPERATORS WITH THE FUNDAMENTAL THEORY OF ANAEROBIC SLUDGE DIGESTION AS IT CAN BE APPLIED TO SOLVING PLANT OPERATION PROCEDURES AND PROBLEMS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($3.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000127

PUBLICATION DATE: 69

TITLE: PAINTS AND PROTECTIVE COATINGS FOR WASTEWATER TREATMENT FACILITIES.

DESCRIPTOR: *FACILITIES; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *PAINTS; *PROTECTIVE COATINGS; POST SECONDARY EDUCATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: MOP REPORT NO. 17

ABSTRACT: INTENDED TO PROVIDE DESIGNERS, OPERATORS, AND MAINTENANCE PERSONNEL OF WASTEWATER COLLECTION AND TREATMENT FACILITIES WITH THE FUNDAMENTAL THEORY AND PRACTICAL ASPECTS OF THE NEED FOR, CHOICE OF, APPLICATION OF, AND MAINTENANCE OF PAINTS AND PROTECTIVE COATINGS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($3.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000128

PUBLICATION DATE: 69

TITLE: SLUDGE DEWATERING.

DESCRIPTOR: *DEWATERING; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SLUDGE DEWATERING; *SLUDGE; *WASTEWATER SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: MOP REPORT NO. 20

ABSTRACT: PROVIDES A SUMMARY OF CURRENT PRACTICE IN SLUDGE CONDITIONING METHODS AND PROCEDURES USED FOR DEWATERING SETTLED SLUDGE FROM WASTEWATER TREATMENT PLANTS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($6.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000135

TITLE: PICTORIAL REVIEW OF WASTEWATER TREATMENT FACILITIES AND EQUIPMENT.

DESCRIPTOR: *EQUIPMENT; *FACILITIES; *ILLUSTRATIONS; INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *VISUAL AIDS; WASTE DISPOSAL; *WASTEWATER TREATMENT

ABSTRACT: PICTURES OF EQUIPMENT USED IN THE WASTEWATER TREATMENT FIELD.

AVAILABILITY: NEW ENGLAND REGIONAL WASTEWATER INST., 2 FORT ROAD, SOUTH PORTLAND, ME 04106 (FREE RENTAL)

INSTITUTION NAME: NEW ENGLAND REGIONAL WASTEWATER INSTITUTE.

IRIS ACCESSION NUMBER: EW000139

PUBLICATION DATE: 70

TITLE: MANUAL OF INSTRUCTION FOR WATER TREATMENT PLANT OPERATORS.

DESCRIPTOR: AERATION; ANALYTICAL TECHNIQUES; CHLORINATION; FLUORIDATION; HYDROLOGY; *INSTRUCTIONAL MATERIALS; *MANUALS; *OPERATIONS; *POST SECONDARY EDUCATION; UTILITIES; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER CHARACTERISTICS

DESCRIPTIVE NOTE: 308P.

ABSTRACT: COMPACT REFERENCE MANUAL EMPHASIZING TREATMENT PROCESSES AND PROCEDURES SUPPORTED BY MANY TABLES, GRAPHS, AND MATHEMATICAL FORMULAS. ORIENTED TOWARD QUANTIFYING VARIABLES INVOLVED IN TREATMENT (EG. AMOUNT OF CHEMICALS, SAMPLING SPECIFICATIONS, ETC.). LITTLE EMPHASIS ON ADMINISTRATIVE ASPECTS. DETAILED TABLE OF CONTENTS. ILLUS, GRAPHS, TABLES, LIMITED BIBL, NO INDEX.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($2.50)

INSTITUTION NAME: NEW YORK DEPT. OF HEALTH.

IRIS ACCESSION NUMBER: EW000140

PUBLICATION DATE: 65

TITLE: MANUAL OF INSTRUCTION FOR SEWAGE TREATMENT PLANT OPERATORS.

DESCRIPTOR: ANALYTICAL TECHNIQUES; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MANUALS; *OPERATIONS; *POST SECONDARY EDUCATION; PRIMARY TREATMENT; RECORD KEEPING; *SEWAGE; SLUDGE; *WASTE DISPOSAL; WASTEWATER CHARACTERISTICS; WASTEWATER SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 243P.

ABSTRACT: PREPARED FOR GRADE 2 OPERATORS, WRITTEN PRIMARILY AS A TEXT TO BE USED IN CONJUNCTION WITH TRAINING COURSE. HEAVILY NARRATIVE, AVOIDS OVERLY TECHNICAL TREATMENT, AND PRESENTS MATERIAL CONCISELY. APPENDICES SUPPORT BACKGROUND MATERIAL (EG ARITHMETIC, CHEMISTRY, BACTERIOLOGY, ETC). GLOSSARY.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($2.00)

INSTITUTION NAME: NEW YORK DEPT. OF HEALTH.

IRIS ACCESSION NUMBER: EW000141

PUBLICATION DATE: 70

TITLE: OPERATION OF WASTEWATER TREATMENT PLANTS: A HOME STUDY TRAINING PROGRAM.

PERSONAL AUTHOR: KERRI, K., ED.

DESCRIPTOR: ACTIVATED SLUDGE; CHLORINATION; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MANUALS; *OPERATIONS (WASTEWATER); PRIMARY TREATMENT; *POST SECONDARY EDUCATION; PUMPS; SAFETY; SEDIMENTATION; SLUDGE TREATMENT; STABILIZATION LAGOONS; TRICKLING FILTERS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1317P. REVISED ANNUALLY; ALSO AVAILABLE ON ERIC MICROFICHE ED150008

ABSTRACT: WRITTEN BY EXPERIENCED OPERATORS WITH THE INTENT OF PROVIDING OPERATORS WITH THE INFORMATION THEY NEED TO KNOW TO OPERATE THEIR PLANTS AS EFFICIENTLY AS POSSIBLE. OPERATORS, PERSONS INTERESTED IN BECOMING OPERATORS, AND PERSONS INTERESTED IN THE OPERATION OF TREATMENT PLANTS WILL FIND VALUABLE INFO IN THE MANUAL. TOPICS COVERED INCLUDE DESCRIPTION OF PLANTS, RACKS, SCREENS, COMMINUTORS, GRIT REMOVAL, SEDIMENTATION, TRICKLING FILTERS, ACTIVATED SLUDGE, SLUDGE DIGESTION AND HANDLING, PONDS, CHLORINATION, MAINT, SAFETY, MATH, LAB, RECORD.

AVAILABILITY: DEPARTMENT OF CIVIL ENGINEERING, CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, 6000 JAY STREET, SACRAMENTO, CA 95819 ($25.00)

IRIS ACCESSION NUMBER: EW000142

TITLE: ANALYSIS OF WASTE WATER SAMPLES.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *SLIDES; *VISUAL AIDS; *WATER CHARACTERISTICS; *WATER ANALYSIS; BOD; CHEMICAL ANALYSIS; PH

DESCRIPTIVE NOTE: 35MM, 342 COLORED SLIDES, SCRIPT, ALSO INCLUDES METHYLENE BLUE

ABSTRACT: DIRECTIONS FOR PERFORMING 16 TESTS.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($145.00)

INSTITUTION NAME: NEW YORK DEPT. OF HEALTH.

IRIS ACCESSION NUMBER: EW000154

PUBLICATION DATE: 69

TITLE: LAKES.

DESCRIPTOR: *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LAKES; *LIMNOLOGY; *POST SECONDARY EDUCATION; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 16MM, 9 MIN., COLOR

ABSTRACT: LAKES ARE CHARACTERIZED, DEFINED, AND DESCRIBED IN TERMS OF THEIR PHYSICAL FEATURES, HOW THEY ARE CREATED AND DESTROYED, AND THEIR USES. THE SIZE AND SHAPE OF A LAKE MAY VARY; LAKES CAN BE BORN EITHER NATURALLY OR WITH MAN'S HELP, BUT ALL LAKES ARE FORMED BECAUSE THERE IS A DEPRESSION IN THE SURROUNDING LAND. LAKES ARE USED AS SOURCES OF FOOD, RECREATION, AND ELECTRICITY.

AVAILABILITY: COORDINATOR OF FILM INFORMATION, AUDIO-VISUAL CENTER, INDIANA UNIVERSITY, BLOOMINGTON, IN 47401 ($6.75)

INSTITUTION NAME: INDIANA UNIVERSITY.

IRIS ACCESSION NUMBER: EW000159

PUBLICATION DATE: 71

TITLE: GROUND WATER - THE HIDDEN RESERVOIR.

PERSONAL AUTHOR: SANDERS, J.; ELLWOOD, R. B.

DESCRIPTOR: AUDIOVISUAL AIDS; CONSERVATION; EARTH SCIENCE; *ENVIRONMENTAL INFLUENCES; *FILMS; GEOLOGY; *GROUNDWATER; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 16MM, 19 MIN., COLOR

ABSTRACT: BRONZE MEDAL WINNER, PRESENTED AT THE ATLANTA INTERNATIONAL FILM FESTIVAL. EXPLAINS THE ORIGINS OF GROUND WATER AND DEFINES SUCH TOPICS AS PERMEABILITY, IMPERMEABILITY, WATER TABLE, ARTESIAN CONDITIONS, GEYSER, HARD WATER, CAVERN FORMATION, ETC.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($50.00)

IRIS ACCESSION NUMBER: EW000164

PUBLICATION DATE: 72

TITLE: THE FIRST POLLUTION.

DESCRIPTOR: *FILMS; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *MUNICIPAL WASTES; *WASTE DISPOSAL; *WASTEWATER TREATMENT; AUDIOVISUAL AIDS; INSTRUCTIONAL FILMS; POLLUTION; POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 16 MM, 26 MIN, COLOR; AVAILABLE ON LOAN FREE OF CHARGE FROM MODERN TALKING PICTURE SERVICE, 168 ELMHURST ROAD, ELK GROVE VILLAGE, IL 60007

ABSTRACT: A MOTION PICTURE ABOUT MUNICIPAL AND INDUSTRIAL WASTE COLLECTION AND DISPOSAL.

AVAILABILITY: STUART FINLEY, INC. 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($30.00 RENTAL; $300.00 PURCHASE)

INSTITUTION NAME: STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000165

PUBLICATION DATE: 65

TITLE: RENAISSANCE OF A RIVER.

DESCRIPTOR: AUDIOVISUAL AIDS; ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *POLLUTION; POST SECONDARY EDUCATION; *RIVERS; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 20 MIN., COLOR

ABSTRACT: WATER QUALITY MANAGEMENT IN THE SUSQUEHANNA RIVER BASIN.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: INTERSTATE ADVISORY COMMITTEE ON THE SUSQUEHANNA RIVER.

IRIS ACCESSION NUMBER: EW000168

PUBLICATION DATE: 70

TITLE: THE GIFTS.

DESCRIPTOR: AIR POLLUTION CONTROL; *AUDIOVISUAL AIDS; ECOLOGY; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *NATURAL RESOURCES; *POLLUTION; POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: RUNNING TIME 28 MINUTES. EXCELLENT FOR GENERAL PUBLIC, SECONDARY LEVEL ON. ORIGINATED BY FWQA

ABSTRACT: ECOLOGICAL TRIP ABOUT ALL FORMS OF POLLUTION. THE GIFTS WAS FILMED NATIONWIDE IN 18 STATES AND THE DISTRICT OF COLUMBIA, IN EVERY REGION OF THE COUNTRY. THE FILM IS NARRATED BY LORNE GREENE. THE ORIGINAL SCORE WAS WRITTEN, ARRANGED AND CONDUCTED BY SKITCH HENDERSON.

AVAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST ROAD, ELK GROVE VILLAGE, IL 60007 (FREE RENTAL)

IRIS ACCESSION NUMBER: EW000175

PUBLICATION DATE: 61

TITLE: OIL ON THE RIVER.

DESCRIPTOR: ACCIDENT PREVENTION; AUDIOVISUAL AIDS; ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MARINE POLLUTION; *OIL SPILLS; *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 16MM, 23 MIN., COLOR

ABSTRACT: ILLUSTRATING PROPER METHODS OF HANDLING OIL TO PREVENT POLLUTION.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: ORSANCO.; STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000181

TITLE: THE AGING OF LAKES.

DESCRIPTOR: *AUDIOVISUAL AIDS; ECOLOGY; ENVIRONMENT; *FILMS; INDUSTRIAL WASTES; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LAKES; *POLLUTION;; POST SECONDARY EDUCATION; SEWAGE; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES

DESCRIPTIVE NOTE: (NO. 3023) 16MM, 14 MIN., COLOR

ABSTRACT: ZEROES IN ON HOW MAN IS SPEEDING UP THE NATURAL AGING PROCESS OF LAKES BY SHOWING EXAMPLES OF INDISCRIMINATE DISPOSAL OF FERTILIZERS, SEWAGE, AND INDUSTRIAL WASTE.

AVAILABILITY: ENCYCLOPEDIA BRITANNICA EDUCATION CORP., 425 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($12.00 RENTAL)

INSTITUTION NAME: ENCYCLOPEDIA BRITANNICA EDUCATION CORP.

IRIS ACCESSION NUMBER: EW000185

PUBLICATION DATE: MAY 73

TITLE: ANAEROBIC DIGESTION AND ANALYTICAL CONTROL (XT-34).

PERSONAL AUTHOR: HALLBACH, P. F.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MICROBIOLOGY; POLLUTION; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *ANAEROBIC DECOMPOSITION; *SLUDGE; *SLUDGE STABLILZATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 13 MINUTE TAPE, 6 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR EXPERIENCED WASTEWATER TREATMENT PLANT OPERATORS WHO WISH TO UPGRADE PLANT PERFORMANCE AND TO INCREASE THEIR OWN KNOWLEDGE AND SKILLS. IT PRESENTS A DISCUSSION OF THE ANAEROBIC DECOMPOSITION PROCESSES UTILIZED TO TREAT ORGANIC MATERIALS IN WASTES, AND THE ENVIRONMENTAL CONDITIONS REQUIRED FOR THE INVOLVED BACTERIA. IT ALSO CONTAINS A DISCRIPTION OF THE

IRIS ACCESSION NUMBER: EW000187

PUBLICATION DATE: 63

TITLE: DEVELOPMENT OF A WATER QUALITY MANAGEMENT PROGRAM FOR DELAWARE RIVER BASIN COMMISSION.

PERSONAL AUTHOR: CLEARY, E. J.; AND OTHERS.

DESCRIPTOR: *ADMINISTRATIVE AGENCIES; *DECISION MAKING; *MANAGEMENT; *RIVERS; *WATER QUALITY; ENVIRONMENT; INSTRUCTIONAL MATERIALS; LAWS; POLLUTION; POST SECONDARY EDUCATION; REGULATIONS; WATER POLLUTION CONTROL

ABSTRACT: A WATER QUALITY MANAGEMENT PROGRAM WAS RECOMMENDED FOR IMPLEMENTATION BY THE DELAWARE RIVER BASIN COMMISSION ENCOMPASSING DATA COLLECTION AND ANALYSES, RESEARCH AND INVESTIGATIONS, ACTIVE PARTICIPATION IN THE DELAWARE ESTUARY COMPREHENSIVE STUDY, CONTINUITY WITH THE INCUDEL PROGRAM, MONITORING OF COMPLIANCE WITH COMMISSION STANDARDS, ESTABLISHMENT OF A WATER QUALITY EMERGENCY WARNING SYSTEM, AND PERIODIC AERIAL AND BOAT SURVEILLANCE.

AVAILABILITY: DELAWARE RIVER BASIN COMMISSION, PO BOX 360, TRENTON, NJ 08603 ($0.50).

RELATED PROCESS CONTROL ANALYSIS: VOLATILE ACIDS (STEPWISE PROCEDURE GIVEN), ALKALINITY, TOTAL ORGANIC NITROGEN CONTENT, TOTAL ORGANIC LOAD, PH, AND GAS PRODUCTION. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000188

PUBLICATION DATE: MAY 69

TITLE: INDUSTRIAL WASTEWATER MANAGEMENT AND POLICY SEMINAR.

PERSONAL AUTHOR: GROSS, S. P.; AND OTHERS

DESCRIPTOR: ADMINISTRATIVE AGENCIES; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; LAWS; *MANAGEMENT; POLLUTION; POST SECONDARY EDUCATION; REGULATIONS; *RIVERS; SEMINARS; *WASTE DISPOSAL; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

ABSTRACT: PROCEEDINGS OF A ONE-DAY SEMINAR TO ASSIST INDUSTRIAL MANAGERS IN SELECTING APPROACHES TO LIQUID WASTE MANAGEMENT AND DIRECTING THEIR IMPLEMENTATION WITH SPECIAL EMPHASIS ON REQUIREMENTS IN THE DELAWARE RIVER BASIN AND ESTUARY. PRESENTATIONS ENCOMPASSED POLLUTION IMPACT, OXYGEN DEMAND, STANDARDS, ALLOCATIONS, WASTEWATER MANAGEMENT METHODS, POLLUTION INCIDENT PREVENTION, REGIONALIZATION, AND STATE, FEDERAL, AND INTERSTATE REGULATORY FRAMEWORK.

AVAILABILITY: DELAWARE RIVER BASIN COMMISSION, PO BOX 360, TRENTON, NJ 08603 ($2.00)

IRIS ACCESSION NUMBER: EW000189

PUBLICATION DATE: MAY 70

TITLE: A PROGRAM FOR THE INVESTIGATION AND MANAGEMENT OF GROUND WATER IN THE DELAWARE RIVER BASIN.

PERSONAL AUTHOR: BARKSDALE, H. C.

DESCRIPTOR: AQUIFERS; *GROUNDWATER; INSTRUCTIONAL MATERIALS; *MONITORING; POST SECONDARY EDUCATION; *RIVERS; *WATER RESOURCES; *WATER WELLS

ABSTRACT: A PROGRAM IS SET FOR THE COLLECTION OF NEEDED ADDITIONAL GROUND-WATER INFORMATION IN THE DELAWARE RIVER BASIN. PROPOSED PROJECTS ENCOMPASS QUANTITATIVE AND ECONOMIC STUDIES OF MAJOR AQUIFERS, IMPROVED MONITORING NETWORKS FOR WATER LEVELS, WATER USE, AND WATER QUALITY, AND INVENTORIES OF SOURCES OF CONTAMINATION.

AVAILABILITY: DELAWARE RIVER BASIN COMMISSION, PO BOX 360, TRENTON, NJ 08603 ($2.00)

IRIS ACCESSION NUMBER: EW000190

PUBLICATION DATE: 71

TITLE: ALLOCATION OF STREAM CAPACITY FOR ACCEPTANCE OF WASTE DISCHARGES.

PERSONAL AUTHOR: PORGES, R.; AND OTHERS.

DESCRIPTOR: *BIOCHEMICAL OXYGEN DEMAND; *EFFLUENTS; *ESTUARIES; *RIVERS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; ASSIMILATIVE CAPACITY; ENVIRONMENT; INSTRUCTIONAL MATERIALS; POLLUTION; POST SECONDARY EDUCATION; WATER QUALITY

DESCRIPTIVE NOTE: STAFF PAPER III

ABSTRACT: THE PRINCIPLES AND POLICIES GOVERNING WASTE LOAD ALLOCATIONS BY THE DELAWARE RIVER BASIN COMMISSION ARE PRESENTED. WHEN MINIMUM EFFLUENT REQUIREMENTS, INCLUDING 85 PER CENT BOD REDUCTION, ARE NOT SUFFICIENT TO PROTECT WATER USES OR MEET WATER QUALITY CRITERIA OF COMMISSION STANDARDS, THE COMMISSION MAY ALLOCATE THE CAPACITY OF THE RECEIVING WATERS TO ASSIMILATIVE WASTE DISCHARGES. ALLOCATIONS ARE CURRENTLY IN EFFECT LIMITING THE CARBONACEOUS OR FIRST STAGE OXYGEN DEMAND (FSOD) OF DISCHARGES TO THE DELAWARE ESTUARY.

AVAILABILITY: DELAWARE RIVER BASIN COMMISSION, PO BOX 360, TRENTON, NJ 08603 (FREE).

IRIS ACCESSION NUMBER: EW000191

PUBLICATION DATE: 68

TITLE: MUD.

DESCRIPTOR: AUDIOVISUAL AIDS; *EROSION; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; LAND USE; *MUD; POST SECONDARY EDUCATION; *SEDIMENTATION; URBAN AREAS; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 23 MIN., COLOR

ABSTRACT: ILLUSTRATING METHODS OF PREVENTING URBAN EROSION AND SEDIMENTATION.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHRUCH, VA 22041 ($22.50 RENTAL; $225.00 PURCHASE)

INSTITUTION NAME: STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000192

PUBLICATION DATE: 71

TITLE: SPRAY IRRIGATION OF WASTE EFFLUENT AND STATE WATER POLLUTION CONTROL REPORTS (1971 PROCEEDINGS).

DESCRIPTOR: *CONFERENCE REPORTS; *IRRIGATION; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SPRAY IRRIGATION; *WASTE DISPOSAL; *WASTEWATER EFFLUENTS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 20P.

ABSTRACT: PROCEEDINGS OF THE ANNUAL FALL MEETING HELD SEPTEMBER 23-24, 1971 IN CHAMBERSBURG, PA BY ICPRB.

AVAILABILITY: INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN, 814 EAST WEST TOWERS, 4350 EAST WEST HIGHWAY, BETHESDA, MD 20014 (FREE)

INSTITUTION NAME: INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN.

IRIS ACCESSION NUMBER: EW000194

PUBLICATION DATE: 70

TITLE: WATER RESOURCES MANAGEMENT IN THE UPPER POTOMAC BASIN, 1970 PROCEEDINGS.

DESCRIPTOR: *CONFERENCE REPORTS; INSTRUCTIONAL MATERIALS; *MANAGEMENT; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES; *POTOMAC RIVER

DESCRIPTIVE NOTE: 130P.

ABSTRACT: REPORT OF ANNUAL FALL PUBLIC MEETING HELD NOV 5-6, 1970 IN HARRISONBURG, VA. BY ICPRB.

AVAILABILITY: INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN, 814 EAST WEST TOWERS, 4350 EAST WEST HIGHWAY, BETHESDA, MD 20014 (FREE)

INSTITUTION NAME: INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN.

IRIS ACCESSION NUMBER: EW000196

TITLE: BEARINGS - ANTI FRICTION.

DESCRIPTOR: *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE (PREVENTIVE); MANUALS; POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *BEARINGS

DESCRIPTIVE NOTE: ORDER NO. 07; 10 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION AND CARE OF ANTI-FRICTION BEARINGS; CYLINDRICAL, SPHERICAL, AND TAPERED ROLLER BEARINGS; BALL AND NEEDLE BEARINGS; AND RADIAL AND THRUST TYPE BEARINGS. HIGHLIGHTS OF THE COURSE INCLUDE: CARE IN CLEANING AND HANDLING; LOAD CAPACITY; INSTALLATION AND REMOVAL PROCEDURES; AND TOLERANCE, CLEARANCE, AND FITS FOR ANTI- FRICTION BEARINGS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($16.85)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000197

TITLE: BEARINGS - PLAIN.

DESCRIPTOR: EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE (PREVENTIVE); MANUALS; POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *BEARINGS

DESCRIPTIVE NOTE: ORDER NO. 06; 8 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION AND USE OF BUSHINGS, SLEEVE BEARINGS, AND THRUST BEARINGS. HIGHLIGHTS INCLUDE: FUNCTIONS OF A BEARING; MATERIALS OF CONSTRUCTION; INSERTS; BUSHINGS; CONCEPT OF THRUST; OPERATION OF THRUST BEARINGS, BEARING SURFACES; INSTALLATION OF BUSHINGS, INSERTS; ELEMENTS OF SLEEVE BEARINGS; BEARING TOLERANCE, CLEARANCE; SERVICE REQUIREMENTS; SYMPTOMS, CAUSES, AND TYPES OF PLAIN BEARING FAILURES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($15.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000198

TITLE: BOILER OPERATION - MONITORING BOILER CONDITIONS.

DESCRIPTOR: *EQUIPMENT; HEATING; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MANUALS; POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *BOILERS

DESCRIPTIVE NOTE: ORDER NO. 96; 6 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF NORMAL FURNACE AND BOILER CONDITIONS BY OBSERVATION OF FLAME APPEARANCE AND INSTRUMENTS. HIGH- LIGHTS OF THE COURSE INCLUDE: DETERMINATION OF NORMAL AND ABNORMAL EXCESS AIR BY APPEARANCE OF FLAME AND BY OBSERVATION OF O2, CO2 METERS OR STEAM FLOW-AIR FLOW METER; AND VARIATIONS, IF ANY, OF BOILER CONDITIONS WITH LOAD CHANGES SUCH AS; BOILER EXIT GAS TEMPERATURE, FEEDWATER FLOW, FEEDWATER TEMPERATURE, CO2, AND O2, STEAM FLOW- AIR FLOW, FURNACE DRAFT, BOILER OUTLET DRAFT, AND WINDBOX OR UNDERGRATE AIR PRESSURE, BOILER WATER LEVEL, ETC.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($12.70)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000199

TITLE: BOILER OPERATION - BOILER EFFICIENCY.

DESCRIPTOR: *EQUIPMENT; HEAT RECOVERY; *HEATING; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MANUALS; POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *BOILERS

DESCRIPTIVE NOTE: ORDER NO. 108; 7 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: BOILER, WATER COLUMN, AND GAGE GLASS BLOWDOWN, SOOT BLOWING AND ASH REMOVAL, FEEDWATER CONTROL AND OPERATOR CONTROL OF BOILER EFFICIENCY. INCLUDES: IDENTIFICATION OF PARTS, AND PROCEDURE AND REASONS FOR WATER COLUMN AND GAGE GLASS BLOWDOWN, MUD DRUM AND WATER WALL INTERMITTENT BLOWDOWN, SOOT BLOWING, AND ASH REMOVAL; THE 1-2-& 3-ELEMENT CONTROL SYSTEMS AND THE RELATIVE DIFFERENCES AMONG THEM; AND THE MEANING OF BOILER EFFICIENCY FROM AN OPERATOR'S VIEWPOINT, AND RECOGNITION OF OPTIMUM BOILER EFFICIENCY BY OBSERVATION OF FURNACE CONDITIONS AND STEAM GENERATOR INSTRUMENTS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($13.80)

INSTITUTION NAME: E. I. DUPONT DE NIMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000200

TITLE: BOILER OPERATION - START UP PROCEDURE.

DESCRIPTOR: *EQUIPMENT; *HEATING; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *BOILERS; POST SECONDARY EDUCATION; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 128; 13 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: GENERAL PROCEDURES FOR PUTTING A BOILER ON THE LINE AND PROCEDURES FOR COMPLETE START-UP OF A BOILER. INCLUDES: THE GENERAL PROCEDURES INVOLVED IN BOILER LOAD INCREASE; PUTTING A BOILER ON THE LINE; ALLOWABLE WARM-UP RATE; BOILER START-UP; FILLING A BOILER WITH WATER; ESTABLISHING A MINIMUM STABLE FLAME; AND IDENTIFICATION OF PARTS SUCH AS PILOT BURNER, MANHOLES AND HANDHOLES, ETC.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($23.85)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000201

TITLE: BOILER OPERATION - SHUT DOWN PROCEDURE.

DESCRIPTOR: *EQUIPMENT; *HEATING; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *BOILERS

DESCRIPTIVE NOTE: ORDER NO. 121; 6 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: GENERAL PROCEDURES FOR TAKING A BOILER OFF THE LINE AND PROCEDURES FOR COMPLETE SHUTDOWN OF A BOILER. INCLUDES: THE GENERAL PROCEDURES INVOLVED IN BOILER LOAD REDUCTION; TAKING A BOILER OFF THE LINE; ALLOWABLE COOLING RATE; BOILER SHUTDOWN AND DRAINING OF BOILER; EFFECT OF COOLING RATE ON BOILER WATER LEVEL; AND IDENTIFICATION OF BOILER PARTS SUCH AS CHEMICAL FEED VALVE, DRUM VENT VALVE, ETC.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($13.80)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000202

TITLE: CHAINS AND SPROCKETS - ROLLER CHAINS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *CHAINS; POST SECONDARY EDUCATION; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 55; 7 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF ROLLER CHAINS, PARTS OF CHAINS, AND TYPES OF LINKS, INCLUDING PIN LINKS, ROLLER LINKS, CONNECTING LINKS, AND OFFSET LINKS; PRESS FITS AND SLIP FITS IN CHAINS; HOW TO FIND AND IDENTIFY "PITCH" OF ROLLER CHAINS; STANDARD AND ASA ROLLER CHAINS; HOW TO IDENTIFY A CHAIN BY ITS ASA NUMBER, INCLUDING LIGHT, NORMAL, AND HEAVY-DUTY ROLLER CHAINS, STRANDS OF CHAIN, DOUBLE-PITCH CHAIN, AND ROLLERLESS CHAINS; USE OF CATALOGS OF ROLLER CHAINS AND HOW TO DETERMINE LENGTH AND THE NUMBER OF "PITCHES" IN A PIECE OF CHAIN; HOW TO USE ROLLER CHAIN PITCH CONVERSION CHARTS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($13.80)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000203

TITLE: CHAINS AND SPROCKETS - SPROCKETS AND DRIVES.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *CHAINS

DESCRIPTIVE NOTE: ORDER NO. 112; 12 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF ROLLER CHAIN SPROCKETS; DIMENSIONS AND MEASUREMENT; STYLES AND STRANDS OF SPROCKETS; SPLIT AND TAPER- LOCK SPROCKETS; PITCH AND PITCH DIAMETER OF SPROCKETS; BASIC RULES FOR MESHING; STANDARD AND ASA SPROCKETS; EXERCISES IN FINDING NUMBER OF TEETH AND SPEEDS OF DRIVE AND DRIVEN SPROCKETS BY USE OF SIMPLE FORMULAS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($21.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000204

TITLE: CHEMISTRY, INORGANIC - FOR PLANT OPERATORS.

DESCRIPTOR: *CHEMISTRY; ENVIRONMENTAL TECHNICIANS; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; *TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 69; 10 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: CHEMICAL ATTRACTION; VALENCE; RADICALS; SYNTHESIS OF A COMPOUND; DECOMPOSITION OF A COMPOUND; RELATIVE ACTIVITY OF ELEMENTS; FACTORS WHICH AFFECT SYNTHESIS; ACTION OF A CATALYST; TYPES OF MIXTURES; SOLUTIONS AND SOLVENTS; IDENTIFICATION OF ACIDS, BASES, AND SALTS; AND PH SCALE AND MEASUREMENT OF PH.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($18.80)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000205

TITLE: COMBUSTION, PRINCIPLES OF.

DESCRIPTOR: *CHEMISTRY; *FUEL CONSUMPTION; *FUELS; *HEATING; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *COMBUSTION; INDUSTRY; SCIENCE EDUCATION; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 53; 14 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HIGHLIGHTS INCLUDE: THE CHEMICAL SYMBOLS FOR ELEMENTS AND COMPOUNDS ENCOUNTERED IN COMBUSTION; IGNITION TEMPERATURES; CHEMICAL FORMATION OF CO2, SO2, CO, AND H2O; PRODUCTS OF COMBUSTION; COMPLETE, INCOMPLETE, AND PERFECT COMBUSTION; EFFECT OF TIME, TEMPERATURE, AND TURBULENCE ON QUALITY OF COMUSTION; THE BTU; HEATING VALUE OF A FUEL; EFFECTS OF EXCESS AIR; AND COMBUSTION OF SOLID, LIQUID, AND GASEOUS FUELS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($25.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000206

TITLE: COMPRESSED AIR SYSTEMS - FUNDAMENTALS.

DESCRIPTOR: EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *COMPRESSED AIR

DESCRIPTIVE NOTE: ORDER NO. 129; 2 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HIGHLIGHTS INCLUDE: THE AIR MIXTURE OF NITROGEN, OXYGEN, AND WATER VAPOR; THE INTERRELATIONSHIP OF AIR PRESSURE, TEMPERATURE, VOLUME, WATER VAPOR, AND DEW POINT; USES OF COMPRESSED AIR, AND THE PURPOSES AND FLOW SEQUENCE OF THE FOLLOWING: FILTER, COMPRESSOR FIRST STAGE-INTERCOOLER, COMPRESSOR SECOND STAGE, AFTERCOOLER, AFTERCOOLER SEPARATOR, AFTER-AFTERCOOLER, AFTER-AFTERCOOLER SEPARATOR, RECEIVER, AND DRYER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000207

TITLE: COMPRESSED AIR SYSTEMS - CENTRIFUGAL COMPRESSORS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *COMPRESSORS; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 132; 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HIGHLIGHTS INCLUDE: BASIC TYPES OF ROTARY COMPRESSORS: POSITIVE DISPLACEMENT AND VELOCITY HEAD; PURPOSE OF AND FLOW THROUGH THE PRINCIPLE CENTRIFUGAL COMPRESSOR PARTS; IMPELLER, DIFFUSER, AND VOLUTE; MULTISTAGE CENTRIFUGAL COMPRESSOR OPERATION AT BOTH CONSTANT AND VARIABLE SPEEDS; THE CAUSE AND CORRECTION FOR THE OPERATING CONDITION OF SURGE; CONTROL SYSTEMS TO PROVIDE COMPRESSOR LOAD CONTROL AND SURGE CONTROL BY: VARIABLE DISCHARGE VENTING, VARIABLE DISCHARGE VENTING WITH VARIABLE INLET THROTTLING, FUEL INLET THROTTLING, AND FULL DISCHARGE VENTING; START-UP AND SHUTDOWN PROCEDURE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000208

TITLE: COMPRESSED AIR SYSTEMS - RECIPROCATING COMPRESSORS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *COMPRESSORS

DESCRIPTIVE NOTE: ORDER NO. 133; 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HIGHLIGHTS INCLUDE: IDENTIFICATION AND OPERATING SEQUENCE OF THE BASIC PARTS OF A RECIPROCATING COMPRESSOR; NAME, PURPOSE, AND AIR FLOW IN EACH PIECE OF EQUIPMENT OF A RECIPROCATING COMPRESSOR SYSTEM; LUBRICATED AND NONLUBRICATED COMPRESSORS; DRAIN TRAPS; REGULATION OF COMPRESSOR CAPACITY BY INLET VALVE LIFTERS AND CYLINDER CLEARANCE POCKETS; COMPRESSOR START-UP PROCEDURE; OPERATING OBSERVATIONS; AND COMPRESSOR SHUTDOWN PROCEDURE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000209

TITLE: COUPLING ALIGNMENT - SHAFTS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *SHAFTS

DESCRIPTIVE NOTE: ORDER NO. 28; 14 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HIGHLIGHTS INCLUDE: FUNCTIONS OF A SHAFT COUPLING; TAPERED AND CYLINDRICAL BORE; FITS; PRECISION MEASUREMENT OF DIAMETER AND BORE; FITTING KEYS; THE ARBOR PRESS; INSTALLING A COUPLING HALF; TYPES OF MISALIGNMENT; ALIGNMENT; SHIMMING; END PLAY; AND ALIGNMENT CHECK.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($25.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000210

TITLE: DRAWINGS - READING ENGINEERING DRAWINGS.

DESCRIPTOR: *DRAFTING; *ENGINEERING DRAWING; ENGINEERING EDUCATION; *ENGINEERING TECHNICIANS; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 109; 12 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: TWO AND THREE-VIEW DRAWINGS; ASSEMBLY DRAWINGS, AS WELL AS DETAIL DRAWING; THREADED AND NON-THREADED FASTENERS; DIMENSIONS AND TOLERANCES; SYMBOLS FOR PIPE, VALVES, AND FITTINGS; AND ARRANGEMENT AND DIMENSIONS FOR PIPING LAYOUT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($22.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000211

TITLE: DRILLS - SELECTION, CHECKING AND INSPECTIONS.

DESCRIPTOR: *EQUIPMENT; INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MANUALS; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *DRILLS

DESCRIPTIVE NOTE: ORDER NO. 16; 4 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: TRAINEE IS TAUGHT THE METHODS USED TO SPECIFY DRILL SIZES; HOW TO USE STANDARD DRILL SIZE TABLES; HOW TO CHECK DRILL SIZES BY USING DRILL GAUGES; HOW TO INSPECT A DRILL POINT FOR LIP CLEARANCE, EQUAL LIP ANGLES AND EQUAL LIP LENGTHS, AND OVERSIZE AND BELLMOUTH HOLES; AND HOW TO USE THE DRILL POINT GAUGE TO CHECK LIP ANGLES AND MEASURE LIP LENGTH.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000212

TITLE: ELECTRICITY - CONTROL OF STATIC ELECTRICITY.

DESCRIPTOR: *ELECTRICITY; *FIRE PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY EDUCATION; *STATIC ELECTRICITY; ACCIDENT PREVENTION; INDUSTRIAL TECHNOLOGY; MANUALS; SAFETY EQUIPMENT; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 86; 4 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HIGHLIGHTS INCLUDE: THE ROLE OF STATIC SPARKS, FLAMMABLE VAPOR OR DUST AND AIR IN THE RING OF FIRE; HOW STATIC SPARKS CAN BE PRODUCED; PREVENTING FIRES OR EXPLOSIONS AS PART OF THE JOB. WHY GROUND WIRES PREVENT SPARKS AND HOW TO BE SURE THEY DO; WHEN GROUND WIRES ARE REQUIRED; A GENERAL RULE FOR GROUNDING WHEN TRANSFERRING FLAMMABLE MATERIALS; AVOIDING SPLASH AND SPRAY. USE OF NEUTRALIZERS WHEN GROUNDS WON'T WORK. ONLY A SMA AREA. LOCATION, DISTANCE FROM SOURCE AND INSPECTION HINTS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($8.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000213

TITLE: ELECTRICAL - READING ELECTRICAL SCHEMATIC DIAGRAMS.

DESCRIPTOR: *ELECTRICITY; *ENGINEERING DRAWING; ENGINEERING EDUCATION; *ENGINEERING TECHNICIANS; EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *TECHNICAL ILLUSTRATIONS

DESCRIPTIVE NOTE: ORDER NO. 127; 7 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: COVERS 66 COMMONLY USED U.S.A. STANDARD ELECTRICAL SCHEMATIC SYMBOLS. INCLUDES: JUNCTIONS, BATTERIES, LIGHT FIXTURES, RESISTORS, CAPACITORS, TRANSFORMERS, RECTIFIERS, SWITCHES, PUSH-BUTTON SWITCHES, CONTROL SWITCHES, CONTACTORS, RELAYS, OVERLOAD PROTECTIVE DEVICES, DISCONNECTING DEVICES, AC AND DC MACHINES, AND FIELDS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($13.80)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000214

TITLE: FILTRATION - PLATE AND FRAME FILTER PRESSES.

DESCRIPTOR: *ENVIRONMENTAL TECHNICIANS; *FILTER PRESSES; *FILTRATION; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; UTILITIES; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER RESOURCES

DESCRIPTIVE NOTE: ORDER NO. 50; 13 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: THE DESIGN OF PLATES AND FRAMES AND FLOW OF MATERIALS THROUGH THEM; THE EFFECT OF FILTER CAKE BUILDUP ON THE PRESSURE AND FLOW RATES; FILTER CAKE REMOVAL; VARIOUS WASHING PROCEDURES WITH FLOWS OF EACH; THE PURPOSES AND EFFECTS OF FILTER AIDS AND HOW THEY ARE APPLIED; FOUR COMMON FILTER AIDS; DIAGRAMS OF PLANT LAYOUTS FOR APPLICATION OF FILTER AIDS; LIMITATIONS OF FILTER AID USE; AND THE USE OF FILTRATION TO RECOVER VALUABLE SOLIDS, LIQUIDS, OR BOTH.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($23.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000215

TITLE: FLOW MEASUREMENT - BASIC PRINCIPLES.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; ENGINEERING EDUCATION; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO. 37, APPROX. 175 PP. 8 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: CONCEPT OF "RATE OF FLOW"; UNITS OF MEASUREMENT OF RATE OF FLOW AND THEIR CONVERSION; BASIC PRINCIPLES OF STATIC PRESSURE AND DIFFERENTIAL PRESSURE VARIATIONS WITH RELATION TO FLOW VARIATIONS; EFFECTS OF PRESSURE, TEMPERATURE, AND DENSITY AND D/P FLOW MEASUREMENTS; AND LINEAR AND SQUARE ROOT SCALES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($15.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000216

TITLE: FLOW MEASUREMENT - PRIMARY ELEMENTS.

DESCRIPTOR: ENGINEERING EDUCATION; *ENGINEERING TECHNICIANS; *EQUIPMENT; *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO. 72; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: ORIFICE PLATES, ORIFICE RUNS, VENTURI TUBES, FLOW NOZZLES, AND PITOT TUBES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000217

TITLE: FLOW MEASUREMENT - MEASURING ELEMENTS.

DESCRIPTOR: ENGINEERING EDUCATION; *ENGINEERING TECHNICIANS; *EQUIPMENT; *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *MANOMETERS

DESCRIPTIVE NOTE: ORDER NO. 92; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: USE OF MANOMETERS AND OTHER MEASURING ELEMENTS (D/P CELLS) TO MEASURE FLOW RATES BASED ON DIFFERENTIAL PRESSURE FROM PRIMARY DETECTING ELEMENTS. THE TRAINEE BECOMES FAMILIAR WITH MEASURING ELEMENTS, THEIR CLASSIFICATION, PURPOSE, AND BASIC PRINCIPLES OF OPERATION. SIXTY PERCENT OF THE COURSE IS USED TO DISCUSS U-TUBE AND WELL-TYPE MANOMETERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000218

TITLE: FLOW MEASUREMENT - INTEGRATION.

DESCRIPTOR: ENGINEERING EDUCATION; *ENGINEERING TECHNICIANS; *EQUIPMENT; *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 93; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: READING OF CIRCULAR CHARTS AND INTEGRATORS; CHART AND INTEGRATOR FACTORS; PLANIMETERS; TYPES OF AUTOMATIC INTEGRATORS; AND INTEGRATOR LIMITATIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000219

TITLE: GEARS AND GEARING - SPUR GEARS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *GEARS

DESCRIPTIVE NOTE: ORDER NO. 26; 8 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF SPUR GEARS AND THEIR PARTS; HOW TO MEASURE THE COMMONLY USED DIMENSIONS ON SPUR GEARS; USE OF PITCH GAUGES; CALCULATION OF PITCH DIAMETER BY FORMULA; USE OF TABLES OF STANDARD KEYWAYS AND SET SCREWS; HOW TO SELECT A GEAR FROM GEAR TABLES AND CATALOGS; AND IDENTIFICATION OF PRESSURE ANGLE, STYLE, MATERIAL OF CONSTRUCTION, AND STOCK GEARS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($15.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000220

TITLE: GEARS AND GEARING - GEAR RATIOS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *GEARS

DESCRIPTIVE NOTE: ORDER NO. 61; 11 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF DRIVE AND DRIVEN GEARS AND SHAFTS; IDLER GEARS AND THEIR USES; DIRECTION OF ROTATION AND SPEED OF ROTATION; FORMULAS FOR GEAR RATIO AND SPEED RATIO; HOW TO DETERMINE RATIOS FOR SETS AND TRAINS OF GEARS; HOW TO CHANGE GEARS; IDENTIFICATION, USE, AND SELECTION OF PROPER SET; MULTIPLE REDUCTIONS; AND CALCULATION OF GEAR RATIOS, SPEED RATIOS, SPEEDS, AND NUMBER OF TEETH IN MULTIPLE GEARING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($20.35)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000221

TITLE: GEARS AND GEARING - GEAR INSTALLATION.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *GEARS

DESCRIPTIVE NOTE: ORDER NO. 66; 9 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF PITCH POINT, CENTER DISTANCE, CLEARANCE, AND BACKLASH; HOW TO MEASURE CLEARANCE AND BACKLASH BY MEANS OF GAUGES; GEAR ALIGNMENT AND CORRECTING ALIGNMENT OF SPUR GEARS; IDENTIFICATION OF MISALIGNMENT IN GEARS; HANDLING AND STORING OF GEARS; TOLERANCES IN GEAR DIMENSIONS; BASIC SIX-STEP PROCEDURE TO FOLLOW WHEN INSTALLING A SET OF GEARS, INCLUDING CLEANING, CHECKING DIMENSIONS, FASTENING TO SHAFT, ALIGNMENT, LUBRICATION, AND CHECKING ACTUAL OPERATION; PROCEDURE FOR REMOVAL OF GEARS; AND SAFETY RULES TO FOLLOW WHEN WORKING WITH GEARS AND/OR SHAFTS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($17.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000222

TITLE: GEARS AND GEARING - HELICAL GEARS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *GEARS; INDUSTRY; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 71; 4 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF HELICAL GEARS, THEIR DIMENSIONS AND MEASUREMENT PROCEDURES; HELIX ANGLE, AND SHAFT ANGLE, AND THE RELATIONSHIP BETWEEN THEM; HOW TO DETERMINE THE "HAND" OF HELICAL GEARS; DIAMETRAL PITCH (DP), PITCH DIAMETER (PD), AND PRESSURE ANGLE AND THE USE OF FORMULAS FOR DP AND PD; DIFFERENCES BETWEEN HELICAL GEARS AND PARALLEL SHAFTS AND ON RIGHT ANGLE SHAFTS; IDLER HELICAL GEARS; HOW TO DETERMINE DIRECTION OF THE THRUST ON PARALLEL AND RIGHT ANGLE SHAFTS; DOUBLE HELICAL (OR HERRINGBONE) GEARS AND HOW THEY ARE DIFFERENT FROM STRAIGHT HELICAL GEARS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000223

TITLE: GEARS AND GEARING - BEVEL GEARS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *GEARS; INDUSTRY; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 76; 6 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF BEVEL GEARS, THEIR DIMENSIONS AND HOW TO MEASURE THEM; SIMILARITIES AND DIFFERENCES AMONG SPUR, HELICAL AND BEVEL GEARS; DIAMETRAL PITCH AND PITCH DIAMETER OF BEVEL GEARS AND HOW TO FIND THEM BY FORMULA; PITCH LINE, APEX, PITCH ANGLE, PITCH CONE, AND SHAFT ANGLE OF BEVEL GEARS; RELATIONSHIP BETWEEN PITCH ANGLE AND SHAFT ANGLE; "MATING" PAIRS OF GEARS; MITER GEARS; SPIRAL BEVEL AND SPIRAL MITER GEARS; "MOUNTING" DISTANCE AND ALIGNMENT IN BEVEL TYPE GEARING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($13.80)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000224

TITLE: GEARS AND GEARING - WORMS AND WORM GEARS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *GEARS

DESCRIPTIVE NOTE: ORDER NO. 98; 9 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF WORMS AND WORM GEARS, THEIR DIMENSIONS, AND HOW TO MEASURE THEM; "HAND" AND THREADS, AND HOW TO DETERMINE THEM; DIAMETRAL PITCH AND PITCH DIAMETER, AND USE OF FORMULAS TO DETERMINE THEM; LINEAR PITCH AND CIRCULAR PITCH; REQUIREMENTS FOR WORMS AND WORM GEARS TO MESH; PRESSURE ANGLE, HELIX ANGLE, AND "LEAD"; GEAR RATIOS AND SPEED RATIOS, AND USE OF STANDARD FORMULAS TO FIND THEM; DIRECTION OF ROTATION AND HOW TO DETERMINE IT; THRUST OF WORMS AND WORM GEARS AND HOW TO DETERMINE IT; AND CENTER DISTANCE, ALIGNMENT, AND CENTERING OF FACES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000225

TITLE: GRAPHS - READING AND PREPARING SIMPLE GRAPHS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *GRAPHS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; DRAFTING; GRAPHIC ARTS; MANUALS

DESCRIPTIVE NOTE: ORDER NO. 78; AVERAGE INSTRUCTION TIME: READING GRAPHS-6 HRS. PREPARING GRAPHS-14 HRS

ABSTRACT: SECTION ON READING GRAPHS COVERS; IDENTIFYING BARS AND READING THEIR VALUE; RECOGNITION OF THE PARTS; INTERPOLATION OF VALUES BETWEEN SCALE DIVISIONS; SELECTION OF PROPER BAR GRAPH BASED ON CONTENT; PREPARATION OF SIMPLE BAR GRAPHS IN BOTH VERTICAL AND HORIZONTAL POSITION. SECTION ON PREPARING GRAPHS COVERS: IDENTIFICATION OF SCALES ON LINE GRAPHS; POINT COORDINATES AND THE PROPER WAY TO WRITE THEM; THE CONCEPT OF POSITIVE AND NEGATIVE COORDINATES; EXTRAPOLATION OF SIMPLE CURVED GRAPHS; AND USE OF CURVE FAMILIES AND MULTISCALE GRAPHS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($25.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000226

TITLE: MODES OF INSTRUMENT CONTROL.

DESCRIPTOR: *ELECTROMECHANICAL TECHNOLOGY; *ELECTRONIC CONTROL; ENGINEERING TECHNICIANS; ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MANUALS; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *AUTOMATIC CONTROL SYSTEMS

DESCRIPTIVE NOTE: ORDER NO. 103; 11 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: ELEMENTS, SIGNALS AND TERMINOLOGY OF CERTAIN BASIC AUTOMATIC CONTROL SYSTEMS AS APPLIED IN DEMONSTRATIONS OF OPEN AND CLOSED LOOPS. THE MODES OF CONTROL DISCUSSED ARE: ON-OFF, PROPORTIONAL, PROPORTIONAL PLUS RESET, PROPORTIONAL PLUS DERIVATIVE, AND PROPORTIONAL PLUS RESET PLUS DERIVATIVE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($20.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000227

TITLE: INTERNAL COMBUSTION ENGINES.

DESCRIPTOR: *AUTO MECHANICS; *ENGINES; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; ENGINEERING TECHNICIANS; EQUIPMENT; INDUSTRY; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 120; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: OPERATION OF THE FOUR-STROKE ENGINE AND THE TWO-STROKE ENGINE; THE INTAKE STROKE; THE COMPRESSION STROKE; THE POWER STROKE; THE EXHAUST STROKE; VALVES; CRANKSHAFT FLYWHEEL; AND ELEMENTARY CARBURETOR ACTION.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000230

TITLE: LEVEL MEASUREMENT - BUOYANCY DISPLACERS.

DESCRIPTOR: *ENGINEERING EDUCATION; *ENGINEERING TECHNICIANS; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MANUALS; *MEASUREMENT; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *LEVEL MEASUREMENT; *BUOYANCY DISPLACERS

DESCRIPTIVE NOTE: ORDER NO. 34; 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: CONCEPTS OF BUOYANT FORCE AND ITS EFFECT ON AN IMMERSED OBJECT; PRINCIPLES OF TUBULAR BUOYANCY DISPLACERS; PRINCIPLES OF SEALS AS APPLIED TO BUOYANCY DISPLACERS IN PRESSURIZED VESSELS; CONCEPTS OF LIQUID INTERFACE; GOOD INSTALLATION PRACTICE; ISOLATING THE BUOYANCY DISPLACER FROM TURBULENT LIQUID; SAFETY ASPECTS AND CONSIDERATIONS OF TEMPERATURE EFFECT ON BUOYANCY DISPLACERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000231

TITLE: LEVEL MEASUREMENT - ELECTRICAL DEVICES.

DESCRIPTOR: *ELECTRONIC CONTROL; ENGINEERING TECHNICIANS; ENVIRONMENTAL TECHNICIANS; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MANUALS; *MEASUREMENT; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *LEVEL MEASUREMENT; *ELECTRICAL DEVICES

DESCRIPTIVE NOTE: ORDER NO. 36; 3 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: SINGLE POINT LEVEL DEVICES SUCH AS BALL FLOATS, DIAPHRAGMS, AND ROTATING PADDLES THAT ACTUATE ELECTRICAL SWITCHES; CONTINUOUS LIQUID LEVEL MEASUREMENT WITH A FLOAT-ACTUATED CABLE ROTATING A MULTIPLE-TURN POTENTIOMETER; DONUT FLOAT CONTAINING MAGNETS ACTUATING FOLLOWER MAGNET ON CABLE; LEVEL DETECTION WITH CONDUCTIVITY ELECTRODES; AND LEVEL DETECTION WITH A VIBRATING PADDLE ACTUATED BY A SOLENOID.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($9.50)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000233

TITLE: LEVEL MEASUREMENT - ELECTRONIC DEVICES.

DESCRIPTOR: *ELECTRONIC CONTROL; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT;

*POST SECONDARY EDUCATION; ENGINEERING TECHNICIANS; ENVIRONMENTAL TECHNICIANS; EQUIPMENT; INDUSTRY; MANUALS; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 94; 9 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES THE PRINCIPLES OF OPERATION, APPLICATIONS AND POINTS OF INTEREST IN THE MAINTENANCE OF LEVEL DEVICES; USING LIGHT SOURCE AND PHOTOTUBE; UTILIZING ULTRASONIC VIBRATIONAL WAVES; DETECTING LEVEL USING GAMMA RAY ABSORPTION; AND A CHANGE IN CAPACITANCE BETWEEN A PROBE AND A VESSEL CAUSED BY CHANGING THE DIELECTRIC CONSTANT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($18.85)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000234

TITLE: MATERIAL HANDLING - CHAIN HOISTS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *HOISTS

DESCRIPTIVE NOTE: ORDER NO. 80; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF FOUR BASIC TYPES OF CHAIN HOISTS; IDENTIFICATION OF VARIOUS PARTS OF ALL HOISTS; RECOGNITION OF PROPER HOOK OPENING FOR VARIOUS SIZE HOISTS; INSPECTION OF HOISTS; STORAGE; PROPER HANGING OF A HOIST; AND PRECAUTIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000235

TITLE: MATERIAL HANDLING - CRANE AND HOIST SIGNALS.

DESCRIPTOR: EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *SAFETY; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 22; 1 HR. AVERAGE INSTRUCTION TIME

ABSTRACT: GIVING AND TAKING HAND SIGNALS FOR: RAISE THE LOAD, LOWER THE LOAD, STOP, RAISE THE BOOM, LOWER THE BOOM, DOG EVERYTHING, LOWER THE LOAD SLOWLY, RAISE THE LOAD SLOWLY, SWING THE LOAD, AND MOVE CRANE FORWARD OR BACK.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($4.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000236

TITLE: MATERIAL HANDLING - KNOTS.

DESCRIPTOR: *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *KNOTS

DESCRIPTIVE NOTE: ORDER NO. 89; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF THE PARTS OF A ROPE; IDENTIFICATION, USE AND TYING OF OVERHAND LOOP, OVERHAND KNOT, BOWLINE, SQUARE KNOT, GRANNY KNOT, THIEF KNOT, BOWLINE ON A POST, SHEET BEND, BOWLINE ON A BIGHT, TWO HALF HITCHES, REVERSE HITCHES, BUNTLINE HITCH, CLOVE HITCH, TIMBER HITCH, AND BARREL HITCH; AND DISCRIMINATION AMONG BINDING KNOTS, BENDS, AND HITCHES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC

IRIS ACCESSION NUMBER: EW000237

TITLE: MATERIAL HANDLING - WIRE ROPE IDENTIFICATION AND FITTINGS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WIRE ROPES; INDUSTRIAL TECHNOLOGY

DESCRIPTIVE NOTE: ORDER NO. 23; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFYING THE MORE COMMONLY USED WIRE ROPE FITTINGS INCLUDING: THIMBLES, CLIPS, OPEN AND CLOSED SOCKETS, WEDGE- TYPE OPEN SOCKETS, ANCHOR SHACKLES, HOOKS, AND PEAR LINKS; FABRICATING AN EYE MADE WITH A THIMBLE AND CLIPS; PROPER ASSEMBLING OF WEDGE-TYPE SOCKET; AND IDENTIFYING THREE COMMONLY USED LOOPS OR EYES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000238

TITLE: MATERIAL HANDLING - WIRE ROPE SLINGS.

DESCRIPTOR: *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *SAFETY; TECHNICAL EDUCATION; *WIRE ROPE SLINGS

DESCRIPTIVE NOTE: ORDER NO. 81; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF SLINGS USING ONE PIECE OF WIRE ROPE; IDENTIFICATION OF MULTI-LEG SLINGS; APPLICATION OF VARIOUS SLINGS AND HITCHES; SAFE WORKING LOADS OF SLINGS; AND 18 RULES FOR GUIDANCE IN THE USE OF WIRE ROPE SLINGS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000239

TITLE: MATHEMATICS, PLANT - WHOLE NUMBERS.

DESCRIPTOR: *ARITHMETIC; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *TECHNICAL MATHEMATICS; WHOLE NUMBERS

DESCRIPTIVE NOTE: ORDER NO. 29; 14 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF WHOLE NUMBERS, SYMBOLS AND TERMS; THE PROCESSES OF ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION; ANSWER CHECKING METHODS FOR THESE PROCEDURES; BASIC RULES IN WORKING PROBLEMS INVOLVING SEQUENTIAL USE OF THESE FOUR ARITHMETIC PROCESSES; AND PRACTICAL WORK PROBLEMS IN THE FIELDS OF LABORATORY CONTROL, PRODUCTION AND MAINTENANCE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($25.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000240

TITLE: MATHEMATICS, PLANT - FRACTIONS.

DESCRIPTOR: *ARITHMETIC; FRACTIONS; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION; *TECHNICAL MATHEMATICS

DESCRIPTIVE NOTE: ORDER NO. 30; 19 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: FRACTION TERMINOLOGY AND THE MEANING OF FRACTIONS; THE CONVERSION OF FRACTIONS TO WHOLE OR MIXED NUMBERS AND VICE VERSA; THE MANIPULATION OF FRACTIONS IN THE SOLUTION OF PROBLEMS IN ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION; THE FOUR BASIC STEPS OF PROCEDURE IN SOLVING MATHEMATICAL PROBLEMS; AND PRACTICAL SEQUENTIAL PROBLEMS WITH FRACTIONS IN THE FIELDS OF LABORATORY CONTROL, PRODUCTION, AND MAINTENANCE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($32.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000241

TITLE: MATHEMATICS, PLANT - DECIMALS AND PERCENTS.

DESCRIPTOR: *ARITHMETIC; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; *TECHNICAL MATHEMATICS; DECIMALS; MAINTENANCE; PERCENTS; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 60; 25 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: CONVERSION FROM ONE FORM OF NOTATION (FRACTION, DECIMAL, OR PERCENT) TO ANOTHER; ADDING, SUBTRACTING, MULTIPLYING, AND DIVIDING WITH DECIMALS; CONVERTING MEASUREMENT UNITS TO DECIMALS IN THE SAME SCALE; WORKING IN DECIMALS IN SOLVING MULTIPLICATION AND DIVISION PROBLEMS INVOLVING PERCENT; AND PRACTICAL SEQUENTIAL PROBLEMS IN THE FIELDS OF PRODUCTION, LABORATORY CONTROL, AND MAINTENANCE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($32.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000242

TITLE: MATHEMATICS, PLANT - POSITIVE AND NEGATIVE NUMBERS.

DESCRIPTOR: *ARITHMETIC; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION; *TECHNICAL MATHEMATICS

DESCRIPTIVE NOTE: ORDER NO. 82; 4 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: USING SIGNS TO DESIGNATE POSITIVE OR NEGATIVE QUALITIES; READING SCALE VALUES ABOVE AND BELOW ZERO; ADDING NEGATIVE NUMBERS, AND POSITIVE AND NEGATIVE NUMBERS; SUBTRACTING LARGE POSITIVE NUMBERS FROM SMALLER ONES; AND WORKING PROBLEMS THAT REQUIRE THE USE OF POSITIVE AND NEGATIVE NUMBERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($9.15)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000243

TITLE: MATHEMATICS, PLANT - SIMPLE ALGEBRA.

DESCRIPTOR: *ALGEBRA; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; *TECHNICAL MATHEMATICS; MAINTENANCE; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 83; 10 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: A REFRESHER COURSE ON THE SIMPLE ALGEBRA REQUIRED FOR DAY-TO-DAY OPERATIONS IN AN INDUSTRIAL ENVIRONMENT. INCLUDES: FORMING EQUATIONS USING SIMPLE NUMBERS; REARRANGING EQUATIONS SO THAT ONE SIDE EQUALS ZERO; UNKNOWNS; SETTING UP AND SOLVING EQUATIONS WITH ONE UNKNOWN; CHANGING MULTIPLIERS AND DIVISORS; CHECKING; AND SYMBOLS OTHER THAN X.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($18.85)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000244

TITLE: MATHEMATICS, PLANT - RATIO AND PROPORTION.

DESCRIPTOR: *ARITHMETIC; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PRACTICAL MATHEMATICS; *RATIOS (MATHEMATICAL); TECHNICAL EDUCATION; TECHNICAL MATHEMATICS

DESCRIPTIVE NOTE: ORDER NO. 84; 10 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: A REFRESHER COURSE WHICH INCLUDES: EXPLANATION AND MEANS OF EXPRESSING RATIOS; REDUCING TO LOWER TERMS; FORMING A PROPORTION; MEANS AND EXTREMES; SOLVING FOR UNKNOWNS IN PROPORTIONS; CHECKING; PROPORTIONS USING VERBAL DESCRIPTIONS; AND ALTERNATE AND INDIRECT PROPORTIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($18.85)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000245

TITLE: MATHEMATICS, PLANT - AREA AND VOLUME OF COMMON FIGURES.

DESCRIPTOR: ARITHMETIC; *GEOMETRY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION; *TECHNICAL MATHEMATICS

DESCRIPTIVE NOTE: ORDER NO. 73; AVERAGE INSTRUCTION TIME 5 HRS.

ABSTRACT: INCLUDES THE RECOGNITION OF PLANE SURFACES AND THE USE OF FORMULAS FOR THE DETERMINATION OF AREA; THE BREAKDOWN OF IRREGULAR SURFACES INTO FAMILIAR SHAPES FOR AREA CALCULATION; THE CALCULATION OF THE VOLUMES OF FAMILIAR SHAPES; AND THE CONVERSION OF UNITS OF VOLUME MEASUREMENT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.95)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000246

TITLE: MATHEMATICS, PLANT - NUMERICAL PREFIX AND POWERS OF TEN.

DESCRIPTOR: *ARITHMETIC; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION; *TECHNICAL MATHEMATICS

DESCRIPTIVE NOTE: ORDER NO. 74; 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: EXPLAINS PREFIX AND APPLICATION OF NUMERICAL PREFIX TO NUMERICAL UNITS. POWERS OF TEN ARE INTRODUCED AS AN AID TO MANIPULATING MULTIPLE ZERO NUMBERS. THE PROCESSES OF ADDING, SUBTRACTING, MULTIPLYING, DIVIDING, TAKING TO A POWER, AND FINDING A ROOT OF POWERS OF TEN BY EXPONENT MANIPULATION ARE TAUGHT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.95)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000247

TITLE: MATHEMATICS, PLANT - SQUARES AND SQUARE ROOT TABLES.

DESCRIPTOR: *ARITHMETIC; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION; *TECHNICAL MATHEMATICS; *SQUARE ROOT

DESCRIPTIVE NOTE: ORDER NO. 99; 4 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: DEFINITION OF SQUARE; USE OF SYMBOLS; SQUARES OF SIMPLE WHOLE NUMBERS; SHIFTING THE DECIMAL POINT TO EXTEND TABLE USE; INTERPOLATION FOR VALUES NOT TO BE FOUND DIRECTLY; AND HOW TO HANDLE FRACTIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($8.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000248

TITLE: MATHEMATICS, PLANT - RIGHT ANGLE TRIGONOMETRY.

DESCRIPTOR: GEOMETRY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PRACTICAL MATHEMATICS; TECHNICAL EDUCATION; *TECHNICAL MATHEMATICS; *TRIGONOMETRY

DESCRIPTIVE NOTE: ORDER NO. 114; 8 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: RECOGNITION OF A TRIANGLE; TRIANGLES; THE SQUARE OF THE HYPOTENUSE; SUM OF THE ANGLES; THE DEFINITION OF SIDE OPPOSITE AND SIDE ADJACENT TO AN ANGLE; DEFINITION AND USE OF SINE, COSINE AND TANGENT FUNCTIONS; AND HOW TO HANDLE ANY TRIANGLE USING RULES OF RIGHT ANGLE TRIGONOMETRY.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($15.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000249

TITLE: MEASUREMENTS FOR INSTALLATION AND CONSTRUCTION.

DESCRIPTOR: *CONSTRUCTION INDUSTRY; *ENGINEERING TECHNICIANS; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MEASUREMENT; POST SECONDARY EDUCATION; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 03; 10 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: READING THE SCALE ON A STEEL RULE; READING THE SCALE ON A MICROMETER; READING THE SCALE ON A PROTRACTOR; SPECIFIC TECHNIQUES FOR CORRECT PLACEMENT AND USE OF THE MEASURING TOOLS; AND INSTRUCTION IN THE USE OF A MICROMETER WITH A RATCHET DRIVE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($18.85)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000250

TITLE: MEASURING TOOLS - CALIPERS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; EQUIPMENT; INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MACHINE TOOLS; *MEASUREMENT; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *CALIPERS

DESCRIPTIVE NOTE: ORDER NO. 04; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: IDENTIFYING THE SIX COMMONLY USED CALIPERS; READING SCALES TO AN ACCURACY OF 1/64" OR 0.01"; AND IDENTIFYING THE PARTS AND USE OF: OUTSIDE FIRM JOINT CALIPERS, INSIDE FIRM JOINT CALIPERS, OUTSIDE LOCK JOINT CALIPERS, INSIDE LOCK JOINT CALIPERS, OUTSIDE BOW SPRING CALIPERS, AND INSIDE BOW SPRING CALIPERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000251

TITLE: MEASURING TOOLS - VERNIERS.

DESCRIPTOR: *ENGINEERING TECHNICIANS; EQUIPMENT; INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MACHINE TOOLS; *MEASUREMENT; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *VERNIERS

DESCRIPTIVE NOTE: ORDER NO. 05; 1 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: READING VERNIERS ON VERNIER CALIPERS AND MICROMETERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($4.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000252

TITLE: MECHANICAL SEALS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *PUMPS; *SEALS

DESCRIPTIVE NOTE: ORDER NO. 79; 14 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: BALANCED AND UNBALANCED SEALS; INSIDE, OUTSIDE, AND SLEEVE-MOUNTED SEALS; SEAL FLUSHING ARRANGEMENTS; KEY POINTS IN CARE AND MAINTENANCE; MATERIALS USED FOR VARIOUS PARTS; AND REQUIREMENTS AND TECHNIQUES INVOLVED IN MECHANICAL SEAL INSTALLATION.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($25.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000253

TITLE: MIXERS "LIGHTNIN".

DESCRIPTOR: *CHEMICAL INDUSTRY; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; TECHNICAL EDUCATION; *MIXERS

DESCRIPTIVE NOTE: ORDER NO. 25; 7 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: IDENTIFYING "LIGHTNIN" PORTABLE TYPE MIXERS AND THEIR MAJOR PARTS; IDENTIFYING, MEASURING, AND SELECTING STANDARD PROPELLERS; PREPARING THE MIXER SHAFT AND INSTALLING THE PROPELLERS ON THE SHAFT; ADJUSTING THE MIXER POSITION; LIFTING AND HANDLING THE MIXER FOR INSTALLATION OR REMOVAL; IDENTIFYING DATA NEEDED FOR REPLACEMENT OF DEFECTIVE MOTOR AND MIXER; MANUAL FOR DISASSEMBLY, INSPECTION, REPAIR AND REASSEMBLY OF THE MIXER, AND IDENTIFYING THE SAFETY FACTORS IN PERFORMING THESE JOBS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($13.80)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000257

TITLE: PIPEFITTING - PIPE AND FITTING IDENTIFICATION.

DESCRIPTOR: *ENGINEERING TECHNICIANS; *EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; MECHANICAL EQUIPMENT; *PLUMBING; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *PIPES

DESCRIPTIVE NOTE: ORDER NO. 8; 14 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: SECTION A COVERS IDENTIFICATION AND SELECTION OF COMMON WROUGHT PIPE; USE OF COMMON PIPE HANDBOOK TABLES TO SELECT PIPE BY NOMINAL PIPE SIZE; IRON PIPE SIZE; SCHEDULE NUMBER; STANDARD, EXTRA STRONG, AND DOUBLE EXTRA STRONG UNITS OF WALL THICKNESS; UNIFORM AND RANDOM LENGTHS; AND METHODS OF MAKING PIPE. SECTION B DEALS WITH THE IDENTIFICATION AND SELECTION OF PIPE FITTINGS; SCREWED AND WELDED FITTINGS AND FLANGES IS TAUGHT BY NOMINAL SIZE, END CONNECTIONS, AND SPECIFIC TYPE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($25.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000258

TITLE: PIPEFITTING - MEASUREMENT AND LAYOUT.

DESCRIPTOR: ENGINEERING TECHNICIANS; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MECHANICAL EQUIPMENT; *PLUMBING; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *PIPES

DESCRIPTIVE NOTE: ORDER NO. 9; AVERAGE INSTRUCTION TIME: SECTION A-13 HRS., SECTION B-13 HRS., SECTION C-16 HRS.

ABSTRACT: SECTION A: HOW TO INTERPRET ORTHEGRAPHIC AND ISOMETRIC SINGLE LINE PIPING DRAWINGS; HOW TO USE PIPE AND FITTING SYMBOLS FOR THREADED, FLANGED, AND WELDED PIPING SYSTEMS. SECTION B: HOW TO CALCULATE THE CUT LENGTHS OF THREADED PIPE REQUIRED TO FABRICATE SYSTEMS MADE WITH SCREWED FITTINGS AND FLANGES. SECTION C: HOW TO CALCULATE THE CUT LENGTHS OF PIPE NECESSARY TO MAKE PIPING ARRANGEMENTS MADE WITH BUTT AND SOCKET WELDING FITTINGS AND WELD NECK, SLIP-ON, AND LAP JOINT OR VAN STONE FLANGES. HOW TO USE HANDBOOKS AND TABLES FOR THE ABOVE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($32.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000259

TITLE: PIPEFITTING - SIMPLE AND ROLLING OFFSETS.

DESCRIPTOR: ENGINEERING TECHNICIANS; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MECHANICAL EQUIPMENT; *PLUMBING; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *PIPES

DESCRIPTIVE NOTE: ORDER NO. 10; AVERAGE INSTRUCTION TIME: SECTION A-6 HRS., SECTION B-9 HRS., SECTION C-5 HRS.

ABSTRACT: SECTION A COVERS THE USE OF THE "INVISIBLE BOX" METHOD OF SHOWING SIMPLE OFFSET DIMENSIONS ON ISOMETRIC SINGLE LINE PIPING DRAWINGS; SECTION B COVERS THE USE OF THE "INVISIBLE BOX" METHOD OF SHOWING ROLLING OFFSET DIMENSIONS ON SINGLE LINE PIPING DRAWINGS; SECTION C COVERS SEVERAL PRACTICAL PROBLEMS USING TWO-PIPE EQUAL-SPREAD OFFSETS AND OFFSET AROUND COMMON FIELD OBSTRUCTIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($32.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000260

TITLE: PIPEFITTING - LAYOUT PRACTICES.

DESCRIPTOR: *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MECHANICAL EQUIPMENT; *PLUMBING; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *PIPES; ENGINEERING TECHNICIANS; EQUIPMENT; INDUSTRY; MAINTENANCE

DESCRIPTIVE NOTE: ORDER NO. 64; 7 1/2 HRS. AVERAG INSTRUCTION TIME

ABSTRACT: HOW TO LOCATE AND MARK PIPE AND FITTIN CENTERLINES USING COMMON SHOP TOOLS AND HANDBOOK TABLES WITH PARTICULAR EMPHASIS ON BUTT WELDING FITTIN CENTERLINES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG WILMINGTON, DE 19898 ($15.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000261

TITLE: PIPEFITTING - MANUALLY CUTTING AND REAMING PIPE.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; MACHINERY INDUSTRY; *MAINTENANCE; MANUALS; *MECHANICAL EQUIPMENT; PLUMBING; *POST SECONDARY EDUCATION; SAFETY; *PIPES

DESCRIPTIVE NOTE: ORDER NO. 123; 4 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: THE TRAINEE LEARNS HOW TO OPERATE PIPE VISES, HAND PIPE CUTTERS, AND HAND PIPE REAMERS TO FABRICATE CUT LENGTHS OF PIPE FREE OF IRREGULARITIES AT THE PIPE CUT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000262

TITLE: PITOT TUBE, USING A.

DESCRIPTOR: *EQUIPMENT; *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; MANUALS; *MEASUREMENT; *POST SECONDARY EDUCATION; *PRESSURE; *WATER MEASUREMENT

DESCRIPTIVE NOTE: ORDER NO. 54; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: MEASURING STATIC, VELOCITY, AND TOTAL PRESSURES WITH A PITOT TUBE AND MANOMETERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000263

TITLE: PLANT OPERATOR SERIES - FUNDAMENTALS.

DESCRIPTOR: *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION; *WASTEWATER TREATMENT; CHEMISTRY; MANUALS; MATHEMATICS; PHYSICS; WASTE DISPOSAL

DESCRIPTIVE NOTE: ORDER NO. 49; 16 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: CONCEPTS OF WEIGHTS, FORM, VOLUME, TEMPERATURE, PRESSURE, DENSITY, SPECIFIC GRAVITY, CONDENSATES AND VAPORS; CONVERSION OF "PSI" TO "FEET OF WATER" AND "INCHES OF MERCURY" AND VICE VERSA; ABSOLUTE, GAGE, AND ATMOSPHERIC PRESSURE, AND VACUUM; EFFECTS OF TEMPERATURE AND PRESSURE ON GAS VOLUMES (IDEAL GAS LAWS); COMPRESSION AND EXPANSION; AND THE EFFECTS OF TEMPERATURE AND PRESSURE ON LIQUIDS, VAPORS, AND CONDENSATES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($31.20)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000264

TITLE: PLANT OPERATOR SERIES - BASIC CHEMISTRY.

DESCRIPTOR: *CHEMISTRY; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 58; 12 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: THE BASIC CHEMISTRY THAT A PLANT OPERATOR NEEDS TO ENABLE HIM TO UNDERSTAND CHEMICAL REACTIONS AND ACIDS AND BASES. SOME OF THE COMMON CHEMICAL SYMBOLS ARE INTRODUCED INCLUDING: ATOMS AND MOLECULES; ELEMENTS AND COMPOUNDS; CHEMICAL REACTIONS; CATALYSTS; ACIDITY AND ALKALINITY; AND PH AND THE PH SCALE. SOME OF THE CHEMICAL SYMBOLS INTRODUCED ARE HCL, H2-SO4, NA-CL, NA-O-H, HG, N2, CO2 AND H2-O.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($22.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000265

PUBLICATION DATE: 63

TITLE: PLANT OPERATOR SERIES - EQUIPMENT.

DESCRIPTOR: ENGINEERING TECHNICIANS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; MANUALS; MECHANICAL EQUIPMENT;

*PLANT OPERATORS; *POST SECONDARY EDUCATION; *PUMPS; *TANKS; *VALVES

DESCRIPTIVE NOTE: 250P. COURSE NO. 59 VOL. I THRU VI, COMPLETE SET. 13 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: AN INTRODUCTION TO VESSELS SUCH AS TANKS AND COLUMNS OR TOWERS, INCLUDING PACKING, DISTRIBUTORS, AND PROCESS FLOW; BASIC PRINCIPLES OF POSITIVE DISPLACEMENT PUMPS, CENTRIFUGAL PUMPS, RECIPROCATING PUMPS, AND COMPRESSORS; FUNDAMENTALS OF HEAT EXCHANGE, INCLUDING HEAT EXCHANGERS AND STEAM TRAP PRINCIPLES; AND THE MAIN PARTS OF A VALVE AND AN INTRODUCTION TO MANY TYPES OF VALVES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($23.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000266

TITLE: PLANT OPERATOR SERIES - OPERATING.

DESCRIPTOR: *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MANUALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: ORDER NO. 63; 22 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION AND GENERAL OPERATING PRINCIPLES OF SOME OF THE INSTRUMENTS USED TO MEASURE AND CONTROL PLANT PROCESSES, AND HOW THEY FUNCTION IN AN INSTRUMENT LOOP. THE INSTRUMENTS DISCUSSED ARE: TOTALIZING METERS, ROTAMETERS, MANOMETERS, TRANSMITTERS AND RECEIVERS, DIAPHRAGM MOTOR VALVES, TEMPERATURE AND PRESSURE CONTROLLERS, AND LIQUID LEVEL CONTROLLERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($32.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000267

TITLE: POWERED LIFT TRUCKS - ADMINISTRATOR'S GUIDE.

DESCRIPTOR: COURSE CONTENT; *EQUIPMENT; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MOTOR VEHICLES; *POST SECONDARY EDUCATION; SAFETY; *TEACHING GUIDES; *FORK LIFTS; *POWERED LIFT TRUCKS

DESCRIPTIVE NOTE: ORDER NO. 134

ABSTRACT: INFORMATION REQUIRED FOR ADMINISTRATION OF COURSE NO. 135, "POWERED LIFT TRUCKS - OPERATOR TRAINING."

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($8.00)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000268

TITLE: POWERED LIFT TRUCKS - OPERATOR TRAINING.

DESCRIPTOR: COURSE CONTENT; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MECHANICAL EQUIPMENT; *MOTOR VEHICLES; *POST SECONDARY EDUCATION; SAFETY; *FORK LIFTS; *POWERED LIFT TRUCKS

DESCRIPTIVE NOTE: ORDER NO. 135; 7 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: A FIVE-PART COURSE ON SAFE, ERROR FREE OPERATION OF THE POWERED LIFT TRUCK INCLUDING: LOADS AND THEIR EFFECT, MAINTAINING CONTROL, THE PROFESSIONAL OPERATOR, LIST TRUCK OPERATION, LOAD HANDLING. SAFE OPERATING RULES ARE ESTABLISHED FOR: LOAD WEIGHT, LOAD CENTER, CARRYING POSITION, OPERATING SPEED, DRIVING TECHNIQUES, PERSONAL SAFETY PRACTICES, OPERATING PROCEDURES, AND INSPECTION PROCEDURES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($16.50)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000269

TITLE: PRESSURE AND ITS MEASUREMENT - BASIC PRINCIPLES.

DESCRIPTOR: COURSE CONTENT; *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT; PHYSICS; *POST SECONDARY EDUCATION; *PRESSURE

DESCRIPTIVE NOTE: ORDER NO. 31; 15 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: THE CONCEPT OF FORCE PER UNIT AREA; HYDROSTATIC PRESSURE; POUNDS PER SQUARE FOOT; POUNDS PER SQUARE INCH; FEET OF LIQUID; TYPES OF MANOMETERS; READING MANOMETER SCALES; U-TUBE AND INCLINED TUBE; DIFFERENTIAL PRESSURE; DENSITY AND SPECIFIC GRAVITY; MANOMETER LIQUIDS; WELL-TYPE MANOMETERS; BAROMETERS; AND CARE, INSTALLATION AND OPERATION OF MANOMETERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($26.50)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000270

TITLE: PRESSURE AND ITS MEASUREMENT - BOURDON TUBE AND OTHER GAGES.

DESCRIPTOR: *FLOW MEASUREMENT; *GAGES; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MEASUREMENT; *POST SECONDARY EDUCATION; *PRESSURE

DESCRIPTIVE NOTE: ORDER NO. 32; 8 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: BOURDON TUBE AND OTHER TYPES OF GAGES COMMONLY USED IN THE MEASUREMENT OF PRESSURE SUCH AS: COMPOUND GAGES; VACUUM GAGES; AND SLACK DIAPHRAGM, METALLIC DIAPHRAGM, AND BELLOWS GAGES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($15.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000271

PUBLICATION DATE: 67

TITLE: PUMPS - CENTRIFUGAL PUMPS.

DESCRIPTOR: *EQUIPMENT; FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; PLANT OPERATORS; *POST SECONDARY EDUCATION; *PRESSURE; *PUMPS

DESCRIPTIVE NOTE: 200P. COURSE NO. 119, VOL. I THRU VI, COMPLETE SET, 9 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: FLOW THROUGH PUMP; MECHANICAL AND PACKING SEALS; SEAL FLUSH; PARTS OF AND TYPES OF IMPELLERS; DISCHARGE PRESSURE VERSUS FLOW; POWER REQUIREMENTS VERSUS FLOW; EFFECT OF SPECIFIC GRAVITY ON POWER REQUIREMENTS; MULTI- STAGE OPERATION; METHODS OF PRIMING CENTRIFUGAL PUMPS; OPERATING CHARACTERISTICS OF SELF-PRIMING CENTRIFUGAL PUMPS; TYPES OF OIL LUBRICATION; GREASE LUBRICATED BEARING; BEARING HOUSING TEMPERATURES; AND CAVITATION AND GASSING OF CENTRIFUGAL PUMPS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($17.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000272

TITLE: PUMPS - POSITIVE DISPLACEMENT PUMPS.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; PLANT OPERATORS; *POST SECONDARY EDUCATION; *PRESSURE; *PUMPS

DESCRIPTIVE NOTE: ORDER NO. 12; 5 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: THE IDENTIFICATION OF RECIPROCATING POSITIVE DISPLACEMENT PUMPS BY TYPE OF POWER END, DISPLACING SOLID, NUMBER OF PUMPING UNITS, TYPE OF PUMPING UNIT, AND VALVE GEAR; AND THE IDENTIFICATION OF THE COMMON TYPES OF ROTARY POSITIVE DISPLACEMENT PUMPS BY TYPE OF DISPLACING SOLID. THE OPERATING PRINCIPLES OF BOTH TYPES OF PUMPS ARE APPLIED TO ELEMENTARY TROUBLESHOOTING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($12.70)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000273

TITLE: SCAFFOLDS.

DESCRIPTOR: *CONSTRUCTION; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *SCAFFOLDS; *SAFETY

DESCRIPTIVE NOTE: ORDER NO. 97; 1 HR. AVERAGE INSTRUCTION TIME

ABSTRACT: MINIMUM REQUIREMENTS FOR A STANDARD SCAFFOLD: HAND RAILS, KNEE RAILS, TOE BOARDS, DECK PLANKS, PLANK CLEATS, PLANK OVERHAND, PLANKS TIED DOWN, DIAGONAL BRACING, HORIZONTAL MEMBERS, BASES, LADDERS, HEIGHT OF HAND RAIL, LOOSE COUPLINGS, AND RIGHTSIDE-UP COUPLINGS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($4.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000274

TITLE: SKETCHING, FIELD.

DESCRIPTOR: *DRAFTING; *DRAWING; ENGINEERING DRAWING; *INSTRUCTIONAL MATERIALS; MANUALS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 27; 16 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: MAKING FREEHAND SKETCHES, ORTHOGRAPHIC AND PICTORIAL, OF MACHINERY AND EQUIPMENT. HIGHLIGHTS INCLUDE TECHNIQUES FOR DRAWING STRAIGHT LINES, CURVED LINES, AND CIRCLES; SKETCHING TWO- AND THREE-VIEW ORTHOGRAPHIC PROJECTIONS; FREEHAND LETTERING AND DIMENSIONING PRACTICES; AND FREEHAND SKETCHES IN ISOMETRIC AND OBLIQUE PROJECTION.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($28.00)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000275

TITLE: SLIDE RULE, THE SIMPLE.

DESCRIPTOR: *ARITHMETIC; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *POST SECONDARY EDUCATION; *SLIDE RULES

DESCRIPTIVE NOTE: ORDER NO. 125; 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HOW TO USE A 10-INCH SLIDE RULE FOR MULTIPLYING, DIVIDING, SQUARING, AND TAKING SQUARE ROOTS OF NUMBERS (C, D, AND A SCALES).

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000276

TITLE: STEAM AND THE STEAM GENERATING UNIT.

DESCRIPTOR: *BOILERS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; MANUALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; PRESSURE; *STEAM; TEMPERATURE

DESCRIPTIVE NOTE: ORDER NO. 87; 4 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: DEFINITIONS OF SATURATED, SUPERHEATED AND WET STEAM, LATENT HEAT OF STEAM; PRESSURE/TEMPERATURE RELATIONSHIP OF SATURATED AND WET STEAM; RELATIVE WEIGHTS OF STEAM AND WATER; EFFECT ON WATER AND STEAM AS HEAT IS ADDED OR TAKEN AWAY; CONDENSING STEAM; SOME OF THE MAIN PARTS OF A STEAM GENERATING UNIT; DIFFERENCE BETWEEN FIRE TUBE AND WATER TUBE BOILER; BOILER CIRCULATION AND WATER WALLS CIRCULATION; AND IDENTIFICATION OF SOME PARTS OF A BOILER AND A WATER WALL.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000277

TITLE: STEAM TRAPS - INTRODUCTION.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; MANUALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; *PRESSURE; SAFETY; *STEAM TRAPS

DESCRIPTIVE NOTE: ORDER NO. 131; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INFORMATION ON FIVE TYPES OF STEAM TRAPS IN GENERAL USE: THERMOSTATIC, FLOAT-THERMOSTATIC, IMPULSE, THERMODYNAMIC (DISC), AND INVERTED BUCKET. THE PRINCIPLE OF OPERATION AND THE CRITICAL OPERATIONAL PART OF EACH TYPE OF TRAP ARE DISCUSSED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000278

TITLE: STEAM TRAPS - TESTING PRACTICES.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; MANUALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; PRESSURE; *STEAM TRAPS; *TESTING

DESCRIPTIVE NOTE: ORDER NO. 88; 4 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: COVERS: HOW STEAM AND CONDENSATE ARE FORMED; THE NEED FOR, AND IMPORTANCE OF STEAM TRAPS; TEST OF ANY TYPE TRAP BY WATCHING CONDENSATE DISCHARGE FROM THE OPEN END OF A PIPE; TEST OF TWO TYPES IN CLOSED-END PIPING BY WATCHING CONDENSATE DISCHARGE FROM A TEST CONNECTION; TEST OF ALL OTHER TYPES WITH CLOSED-END PIPING BY LISTENING TO THE TRAP OPERATION; AND THE SAFETY HAZARDS TO BE AVOIDED DURING TESTING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000279

TITLE: STEAM TRAPS - INSTALLATION.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; PRESSURE; SAFETY; *STEAM TRAPS

DESCRIPTIVE NOTE: ORDER NO. 91; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: COVERS: THE LOCATION, SEQUENCE, AND ARRANGEMENT OF COMPONENTS FOR A STANDARD STEAM TRAP INSTALLATION; WHERE STEAM TRAPS MUST BE INSTALLED; AND SAFETY MEASURES TO AVOID FUTURE INJURIES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000280

TITLE: STEAM TRAPS - TROUBLE SHOOTING.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; MANUALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; PRESSURE; *STEAM TRAPS

DESCRIPTIVE NOTE: ORDER NO. 102; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: COVERS: A PROCEDURE FOR CORRECTING FAULTY STEAM TRAP SYSTEM OPERATION, USING A CHECK LIST. THE MAJOR STEPS IN THE PROCEDURE ARE: (1) TEST THE TRAP; (2) CORRECT IMPORTANT DEFECTS; (3) TEST THE TRAP AGAIN; (4) REPLACE THE TRAP; AND (5) LIST THE NEEDED CORRECTIONS. THERE IS ALSO AN OPTIONAL STEP OF "REPAIR IN PLACE" INSTEAD OF "REPLACE THE TRAP".

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000281

TITLE: SUPERVISORY PROBLEMS - WORKSHOP AND REFERENCE MANUAL.

DESCRIPTOR: ADMINISTRATIVE GUIDES; *FOREMEN; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *PLANT OPERATORS; *POST SECONDARY EDUCATION; SUPERVISION; *SUPERVISORS

DESCRIPTIVE NOTE: ORDER NO. 140; AVERAGE INSTRUCTION TIME: TWO OR THREE PROBLEMS A WEEK FOR APPROXIMATELY 25 WEEKS

ABSTRACT: 55 SITUATIONS REPRESENTING THE KINDS OF PROBLEMS A NEW FOREMAN IS LIKELY TO ENCOUNTER DURING THE EARLY MONTHS OF HIS SUPERVISORY EXPERIENCE. SOME ARE HUMAN RELATIONS PROBLEMS; SOME INVOLVE POLICY QUESTIONS; AND OTHERS ARE CONCERNED WITH PAPER WORK OR PROCEDURAL PHASES OF THE JOB.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($21.80)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000282

TITLE: TEMPERATURE MEASUREMENT - BASIC PHYSICS AND TERMS.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; MANUALS; *MEASUREMENT; *PHYSICS; PLANT OPERATORS; *POST SECONDARY EDUCATION; *TEMPERATURE

DESCRIPTIVE NOTE: ORDER NO. 38; 6 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: PRACTICAL INFORMATION ABOUT TEMPERATURE, MOLECULAR ACTIVITY, HEAT, SOLIDS EXPANSION, LIQUID EXPANSION, GAS EXPANSION, MEASUREMENT OF TEMPERATURE, ABSOLUTE ZERO TEMPERATURE, THE LIQUID AND SOLID EXPANSION THERMOMETER, THE GAS THERMOMETER, THE LIQUID VAPOR THERMOMETER, UNIFORM AND NON-UNIFORM SCALES, AND HEAT-CONDUCTION RADIATION AND CONVECTION.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($12.70)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000283

TITLE: TEMPERATURE MEASUREMENT - SCALES AND CONVERSION.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MANUALS; *MEASUREMENT; *PLANT OPERATORS; *POST SECONDARY EDUCATION; *TEMPERATURE

DESCRIPTIVE NOTE: ORDER NO. 39; 4 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: PRACTICAL INFORMATION ABOUT THE CENTIGRADE, FAHRENHEIT, KELVIN, AND RANKINE TEMPERATURE SCALES, WITH PRACTICE IN USING THE FORMULAS FOR CONVERTING TEMPERATURE FROM ONE SCALE TO ANOTHER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($9.15)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000284

TITLE: TEMPERATURE MEASUREMENT - THERMOMETERS.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MANUALS; *MEASUREMENT; PLANT OPERATORS; *POST SECONDARY EDUCATION; *TEMPERATURE; *THERMOMETERS

DESCRIPTIVE NOTE: ORDER NO. 40; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES PRACTICAL INFORMATION ABOUT THE GLASS THERMOMETER AS A BASIS OF MOST OTHER METHODS OF TEMPERATURE MEASUREMENT; INDUSTRIAL THERMOMETER; BIMETAL THERMOMETER THERMOWELL; AND SPEED OF RESPONSE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000285

TITLE: TITRATION AND ITS GLASSWARE.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *POST SECONDARY EDUCATION; *TITRATION; EQUIPMENT; LABORATORY TECHNIQUES; MANUALS

DESCRIPTIVE NOTE: ORDER NO. 51; 3 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: AN INTRODUCTION TO COMMON TYPES OF LABORATORY GLASSWARE AND UNITS OF VOLUMETRIC MEASUREMENT, AND THE STEPS IN TITRATING A SAMPLE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000286

PUBLICATION DATE: 67

TITLE: VALVES - INTRODUCTION.

DESCRIPTOR: *EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MANUALS; *PLANT OPERATORS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: 20P. COURSE NO 130

ABSTRACT: IDENTIFIES CHARACTERISTICS AND OPERATION OF ALL VALVES COMMONLY USED IN THE PROCESS INDUSTRIES. ALL VALVES ARE CLEARLY ILLUSTRATED AND LABELED IN THE ATTACHED "PANEL BOOK".

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.35)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000287

TITLE: VALVES - OPERATION AND MAINTENANCE.

DESCRIPTOR: *EQUIPMENT; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; MANUALS; *OPERATIONS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: ORDER NO. 68; 12 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: DETAILED COVERAGE OF THE GENERAL APPEARANCE, CONSTRUCTION, AND FUNCTION OF GATE, GLOBE, AND CHECK VALVES; GENERAL COVERAGE OF PLUG, DIAPHRAGM, PINCH, BUTTERFLY, THREE-WAY FLOW, SAFETY, PRESSURE-REGULATING, CONTROL, MULTI-PORT, AND OTHER LESS COMMON VALVES; AND GENERAL COVERAGE OF VALVE OPERATION, INSTALLATION, AND MAINTENANCE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($22.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000288

TITLE: VENTURE ANALYSIS.

DESCRIPTOR: *ANALYSIS; *BUSINESS; DATA; *DECISION MAKING; ECONOMICS; *EVALUATION METHODS; *MANAGEMENT; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 141

ABSTRACT: SYSTEMATIC AND QUANTITATIVE DISCIPLINE FOR ORGANIZING AND PROCESSING INFORMATION TO GUIDE BUSINESS DECISIONS. COMBINES SEVERAL METHODOLOGIES TO IDENTIFY AND CONDENSE, IN A COMMUNICABLE FORMAT, THE BASIC DATA REQUIRED TO DESCRIBE AND EVALUATE A BUSINESS VENTURE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($38.50)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000289

TITLE: WATER TREATMENT - WATER CHEMISTRY.

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *WATER ANALYSIS; WATER CHARACTERISTICS; *WATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO. 90; 2 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: THE BASIC CHEMISTRY NEEDED TO UNDERSTAND THE HOW AND WHY OF WATER TREATMENT. INCLUDES: SOURCES OF WATER; WATER QUALITY; DISSOLVED AND SUSPENDED IMPURITIES IN WATER; IONS; ATTRACTION BETWEEN ANIONS AND CATIONS; HARDNESS; PH AND THE PH SCALE; ALKALINITY; AND SPECIFIC CONDUCTANCE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000290

TITLE: WATER TREATMENT - BOILER FEEDWATER.

DESCRIPTOR: *BOILERS; *CHEMICAL ANALYSIS; CHEMICAL TREATMENT; INDUSTRY; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; MAINTENANCE; *OPERATIONS; PLANT OPERATORS; *POST SECONDARY EDUCATION; *WATER ANALYSIS; WATER CHARACTERISTICS; *WATER TREATMENT; *BOILERS

DESCRIPTIVE NOTE: ORDER NO. 41

ABSTRACT: THE WHY AND HOW OF BOILER FEEDWATER TREATMENT. INCLUDES: THE CAUSE AND EFFECTS OF DEPOSITS, CORROSION, AND CARRYOVER; SPECIFIC CONDUCTANCE; BLOWDOWN; INTERNAL CHEMICAL TREATMENT INCLUDING SULFITE, PHOSPHATE, AND CHELATES; DEAERATING HEATER; AND SODIUM CATION EXCHANGERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000291

TITLE: WATER TREATMENT - WATER TESTING.

DESCRIPTOR: *BOILERS; *CHEMICAL ANALYSIS; EQUIPMENT; INDUSTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MAINTENANCE; *POST SECONDARY EDUCATION; *WATER ANALYSIS; *WATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO. 117; 2 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: TYPES OF TEST PROCEDURES USED FOR CONTROL OF WATER TREATMENT OPERATIONS. TITRATION TYPE TESTS; COLORIMETRIC TESTS; TESTS REQUIRING SPECIAL INSTRUMENTS INCLUDING SPECIFIC CONDUCTANCE AND PH, RECOGNITION OF THE EQUIPMENT USED AND THE FIVE STEPS IN A TYPICAL SPECIFIC CONDUCTANCE TEST ON BOILER WATER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000292

PUBLICATION DATE: 67

TITLE: NEW EMPLOYEE SAFETY TRAINING (NEST) - ENGLISH.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 12P. COURSE NO. 500

ABSTRACT: THE OBJECTIVE OF THIS TRAINING IS TO IMPROVE SAFETY PERFORMANCE BY ESTABLISHING WITH NEW EMPLOYEES A UNIFORM UNDERSTANDING OF SAFETY POLICIES.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000294

TITLE: ADMINISTRATIVE MATERIALS FOR SAFETY TRAINING OBSERVATION PROGRAM (S-T-O-P).

DESCRIPTOR: ACCIDENT PREVENTION; *ADMINISTRATION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY EDUCATION; SELF PACED INSTRUCTION; *TEACHING GUIDES

DESCRIPTIVE NOTE: COURSE NO. 522

ABSTRACT: GUIDANCE MATERIALS FOR RUNNING A SAFETY PROGRAM.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($8.50)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000295

TITLE: EIGHT PROGRAMMED INSTRUCTION COURSES FOR SAFETY TRAINING OBSERVATION PROGRAM (S-T-O-P).

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY EDUCATION; *SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 523

ABSTRACT: MATERIALS FOR SAFETY TRAINING PROGRAMS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($15.50)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000296

TITLE: SET OF 100 OBSERVATION CARDS FOR USE AFTER COURSE 523 HAS BEEN COMPLETED.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY EDUCATION; *SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 524; SEE EW000295 FOR COURSE 523

ABSTRACT: MATERIALS FOR SAFETY TRAINING PROGRAM.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($2.50)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000297

PUBLICATION DATE: 68

TITLE: S-T-O-P REFRESHER COURSE.

DESCRIPTOR: ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *REFRESHER COURSES; *SAFETY; *SUPERVISORS

DESCRIPTIVE NOTE: 20P. COURSE NO. 525

ABSTRACT: REFRESHER COURSE FOR SUPERVISORY PERSONNEL CONCERNED WITH SAFETY.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000298

TITLE: SAFETY PRINCIPLES - INTRODUCTORY UNIT 1 (LEADER'S GUIDE).

DESCRIPTOR: ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; *TEACHING GUIDES

DESCRIPTIVE NOTE: ORDER NO. 550

ABSTRACT: GUIDE FOR INSTRUCTOR TEACHING SAFETY PROGRAMS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000299

TITLE: SAFETY PRINCIPLES - INTRODUCTORY UNIT 1 (COURSE).

DESCRIPTOR: ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 551

ABSTRACT: INSTRUCTIONAL MATERIAL FOR A COURSE IN SAFETY.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000300

TITLE: PLANNING FOR SAFETY - INTRODUCTORY UNIT (LEADER'S GUIDE).

DESCRIPTOR: *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; ACCIDENT PREVENTION; TEACHING GUIDES

DESCRIPTIVE NOTE: 20P. ORDER NO. 552

ABSTRACT: TRAINEE WILL IDENTIFY THE STEPS IN AN ORGANIZED APPROACH TO SAFETY PLANNING ON HIS JOB AS HE GETS READY FOR THE JOB, DOES THE JOB, AND PUTS AWAY WHEN THE JOB IS FINISHED. EACH EMPLOYEE WILL DEMONSTRATE ON THE JOB HOW HE IS USING "PLANNING FOR SAFETY".

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000301

TITLE: PLANNING FOR SAFETY - INTRODUCTORY UNIT (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 32P. COURSE NO. 553

ABSTRACT: TRAINING WILL IDENTIFY THE STEPS IN AN ORGANIZED APPROACH TO SAFETY PLANNING ON HIS JOB AS HE GETS READY FOR THE JOB, DOES THE JOB, AND PUTS AWAY WHEN THE JOB IS FINISHED. EACH EMPLOYEE WILL DEMONSTRATE ON THE JOB HOW HE IS USING "PLANNING FOR SAFETY".

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000302

TITLE: LOCK, TAG AND TRY (LEADER'S GUIDE).

DESCRIPTOR: ACCIDENT PREVENTION; *ELECTRICAL SYSTEMS; GUIDES; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: ORDER NO. 554

ABSTRACT: DISCUSSES IMPORTANCE OF LOCKING OUT ELECTRICAL SYSTEM DURING MAINTENANCE OPERATIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000303

TITLE: LOCK, TAG AND TRY (COURSE).

DESCRIPTOR: ACCIDENT PREVENTION; *ELECTRICAL SYSTEMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 555

ABSTRACT: DISCUSSES IMPORTANCE OF LOCKING OUT ELECTRICAL SYSTEM DURING MAINTENANCE OPERATIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000304

TITLE: FLAMMABLE LIQUID HAZARDS (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *FIRE PROTECTION; INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; TEACHING GUIDES; *HAZARDOUS MATERIALS

DESCRIPTIVE NOTE: ORDER NO. 556

ABSTRACT: INSTRUCTORS GUIDE FOR TRAINING COURSE IN HANDLING FLAMMABLE LIQUIDS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000305

TITLE: FLAMMABLE LIQUID HAZARDS (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; *HAZARDOUS MATERIALS

DESCRIPTIVE NOTE: COURSE NO. 557

ABSTRACT: INSTRUCTIONAL MATERIALS ON FLAMMABLE LIQUIDS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000306

TITLE: PORTABLE FIRE EXTINGUISHERS (LEADER'S GUIDE).

DESCRIPTOR: ACCIDENT PREVENTION; *EQUIPMENT; *FIRE EXTINGUISHERS; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; TEACHING GUIDES

DESCRIPTIVE NOTE: ORDER NO. 558

ABSTRACT: INSTRUCTORS GUIDE FOR COURSE IN USE OF FIRE EXTINGUISHERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000307

TITLE: PORTABLE FIRE EXTINGUISHERS (COURSE).

DESCRIPTOR: ACCIDENT PREVENTION; *EQUIPMENT; FIRE EXTINGUISHERS; *FIRE PROTECTION; INDUSTRY; *INSTRUCTIONAL MATERIALS; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 559

ABSTRACT: INSTRUCTIONAL MATERIAL FOR COURSE IN USE OF FIRE EXTINGUISHERS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000308

TITLE: PERSONAL PROTECTIVE EQUIPMENT (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *OPERATIONS; *POST SECONDARY

EDUCATION; *SAFETY; SELF PACED INSTRUCTION; TEACHING GUIDES

DESCRIPTIVE NOTE: ORDER NO. 560

ABSTRACT: INSTRUCTORS GUIDE ON USE OF PERSONAL PROTECTIVE EQUIPMENT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000309

TITLE: PERSONAL PROTECTIVE EQUIPMENT (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 561

ABSTRACT: INSTRUCTIONAL MATERIAL ON USE OF PERSONAL PROTECTIVE EQUIPMENT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000312

TITLE: STATIC GROUNDING (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; *ELECTRICAL SYSTEMS; *ELECTRONIC TECHNICIANS; GROUNDING (ELECTRICAL); *INSTRUCTIONAL MATERIALS; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; TEACHING GUIDES; *STATIC ELECTRICITY

DESCRIPTIVE NOTE: ORDER NO. 564

ABSTRACT: INSTRUCTORS GUIDE TO MATERIALS ON STATIC GROUNDING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000313

TITLE: STATIC GROUNDING (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *ELECTRICAL SYSTEMS; *ELECTRONIC TECHNICIANS; GROUNDING (ELECTRICAL); *INSTRUCTIONAL MATERIALS; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; *STATIC ELECTRICITY

DESCRIPTIVE NOTE: COURSE NO. 565

ABSTRACT: INSTRUCTIONAL MATERIALS ON STATIC GROUNDING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000314

TITLE: TANK ENTRY (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *INSTRUCTIONAL MATERIALS; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; *TANKS; TEACHING GUIDES; *TANK CLEANING; *TANK INSPECTION

DESCRIPTIVE NOTE: ORDER NO. 566

ABSTRACT: INSTRUCTORS GUIDE ON HOW TO ENTER TANKS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000315

TITLE: TANK ENTRY (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *INSTRUCTIONAL MATERIALS; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; *TANKS; *TANK CLEANING; *TANK INSPECTION

DESCRIPTIVE NOTE: COURSE NO. 567

ABSTRACT: INSTRUCTIONAL MATERIAL ON TANK ENTRY.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NOMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000316

TITLE: BASIC HAND SAFETY (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; *HAND SAFETY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; TEACHING GUIDES

DESCRIPTIVE NOTE: ORDER NO. 568

ABSTRACT: INSTRUCTORS GUIDE FOR SAFE PROCEDURES IN USE OF HANDS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000317

TITLE: BASIC HAND SAFETY (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *HAND SAFETY; *INSTRUCTIONAL MATERIALS; *INDUSTRY; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 569

ABSTRACT: INSTRUCTIONAL MATERIALS ON USING ONE'S HANDS IN A SAFE WAY.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000318

TITLE: OFFICE SAFETY (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; *INSTRUCTIONAL MATERIALS; *OFFICE SAFETY; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; *SELF PACED INSTRUCTION; TEACHING GUIDES

DESCRIPTIVE NOTE: ORDER NO. 570

ABSTRACT: INSTRUCTORS GUIDE FOR SAFETY IN OFFICE OPERATIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000319

TITLE: OFFICE SAFETY (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *INSTRUCTIONAL MATERIALS; *OFFICE SAFETY; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; *SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 571

ABSTRACT: INSTRUCTIONAL MATERIAL ON SAFE PRACTICES IN THE OFFICE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000320

TITLE: TOOL HAZARDS (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; EQUIPMENT; *HAND TOOLS; INDUSTRY; *INSTRUCTIONAL MATERIALS; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; *SELF PACED INSTRUCTION; TEACHING GUIDES

DESCRIPTIVE NOTE: ORDER NO. 572

ABSTRACT: INSTRUCTORS GUIDE ON USE OF HAND TOOLS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000321

TITLE: TOOL HAZARDS (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; EQUIPMENT; *HAND TOOLS; INDUSTRY; *INSTRUCTIONAL MATERIALS; OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; *SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 573

ABSTRACT: INSTRUCTIONAL MATERIAL ON USE OF HAND TOOLS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000322

TITLE: INDUSTRIAL HOUSEKEEPING (LEADER'S GUIDE).

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION; TEACHING GUIDES

DESCRIPTIVE NOTE: ORDER NO. 574

ABSTRACT: INSTRUCTORS GUIDE ON PLANT HOUSEKEEPING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000323

TITLE: INDUSTRIAL HOUSEKEEPING (COURSE).

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY; SELF PACED INSTRUCTION

DESCRIPTIVE NOTE: COURSE NO. 575

ABSTRACT: INSTRUCTIONAL MATERIAL ON INDUSTRIAL HOUSEKEEPING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000324

TITLE: SAFE PRACTICE SERIES CARDS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *OPERATIONS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: ORDER NO. 590

ABSTRACT: REMINDER CARDS FOR SAFETY.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($1.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW000367

TITLE: SHORT COURSE IN FIRST AID.

DESCRIPTOR: *FIRST AID; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. W113; 15 TRANSPARENCIES

ABSTRACT: BASIC FIRST AID KNOWLEDGE PRESENTED. INCLUDES: WHAT TO DO IF BREATHING STOPS, MOUTH-TO-MOUTH RESUSCITATION, ARTIFICIAL RESPIRATION, BLEEDING CHARACTERISTICS, HOW TO STOP BLEEDING, SHOCK, WOUNDS, BURNS AND SCALDS, FRACTURES, AND OTHER PROBLEMS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($89.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000387

TITLE: EFFECTIVE PRESENTATION OF DATA.

DESCRIPTOR: *CHARTS; ENGINEERING DRAWING; *GRAPHIC ARTS; *GRAPHS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. W215; 17 TRANSPARENCIES

ABSTRACT: DEALS WITH EFFECTIVE PRESENTATION OF DATA IN GRAPHIC FORMS, SUCH AS PIE CHARTS, BAR CHARTS, SIMPLE LINE CHARTS, MULTIPLE BAR AND LINE CHARTS, PICTOGRAPHS, STATISTICAL MAPS, AND OTHERS. FUNDAMENTAL APPLICATIONS AND USE OF LOGARITHMIC SCALE AND CHARTS ARE DISCUSSED.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($89.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000389

TITLE: WATER AND ITS USE.

DESCRIPTOR: ELECTRICAL SYSTEMS; INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; POWER PLANTS; *TRANSPARENCIES; *UTILITIES; *WATER QUALITY; *WATER RESOURCES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. A106; 10 TRANSPARENCIES

ABSTRACT: DISCUSSES WATER DEMAND PROJECTIONS, INDUSTRIAL AND HOME USAGE, AVERAGE ANNUAL RAINFALL BY GEOGRAPHIC LOCATION, AVERAGE ANNUAL RUNOFFS BY GEOGRAPHIC LOCATION, WATER-POOR AND WATER-RICH AREAS, FEDERAL WATER QUALITY ADMINISTRATION REGIONS, PROJECTED ELECTRIC GENERATION SOURCES, PRINCIPAL HYDROELECTRIC PROJECTS, AND NUCLEAR POWER PLANTS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000391

TITLE: INTRODUCTION TO FIRE SCIENCE.

DESCRIPTOR: ACCIDENT PREVENTION; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. AG201; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000392

TITLE: GRADING SCHEDULE (FIRES).

DESCRIPTOR: *ACCIDENT PREVENTION; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. AG202; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000393

TITLE: FIRE SERVICE ORGANIZATION.

DESCRIPTOR: ACCIDENT PREVENTION; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. AG203; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000394

TITLE: WATER SERVICE FOR FIRE SERVICE.

DESCRIPTOR: *FIRE PROTECTION; INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: ORDER NO AG204; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000395

TITLE: FIREFIGHTING TACTICS.

DESCRIPTOR: *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. AG205; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000396

TITLE: LEGAL ASPECTS OF FIRE SERVICE.

DESCRIPTOR: *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *LAWS; *POST SECONDARY EDUCATION; REGULATIONS; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. AG206; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000397

TITLE: FIRE INVESTIGATION.

DESCRIPTOR: *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *INVESTIGATION; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. AG207; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000398

TITLE: HAZARDOUS MATERIALS.

DESCRIPTOR: CHEMISTRY; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS; *HAZARDOUS MATERIALS

DESCRIPTIVE NOTE: ORDER NO. AG208; 10 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000400

TITLE: FRESH WATER BIOLOGY.

DESCRIPTOR: *BIOLOGY; *ECOLOGY; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *LAKES; *POST SECONDARY EDUCATION; *TRANSPARENCIES; VISUAL AIDS; *WATER RESOURCES

DESCRIPTIVE NOTE: ORDER NO. TH103; 7 TRANSPARENCIES

ABSTRACT: ILLUSTRATES THE MAJOR CHARACTERISTICS OF FRESH WATER LAKES IN THE NORTH TEMPERATE REGION. INCLUDES: THERMAL STRATA OF LAKES, LIGHT ZONES IN LAKES, LITTORAL ZONE AND LIFE FORMS, OLIGOTROPHIC LAKES, MESOTROPHIC LAKES, EUTROPHIC LAKES, ALGAL BLOOMS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($39.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000401

TITLE: ECOLOGY NUTRIENT CYCLES.

DESCRIPTOR: *BIOLOGY; *ECOLOGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. TH201; 7 TRANSPARENCIES

ABSTRACT: RECYCLING OF ELEMENTS THROUGH THE EARTH'S ECOSYSTEMS IS SHOWN. IDENTIFIES TWO MAJOR TYPES OF CYCLES, GASEOUS AND SEDIMENTARY, AND GIVES THE SALIENT FEATURES OF SEVERAL EXAMPLES, INCLUDING GENERALIZED GASEOUS CYCLE, GENERALIZED SEDIMENTARY CYCLE, CARBON CYCLE, NITROGEN CYCLE, SULFUR CYCLE, WATER CYCLE, AND PHOSPHORUS CYCLE.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($39.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000402

TITLE: LAKES AND PONDS.

DESCRIPTOR: *AQUATIC ANIMALS; BIOLOGY; *ECOLOGY; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *LAKES; *POST SECONDARY EDUCATION; *SLIDES; *VISUAL AIDS; WATER RESOURCES; ZOOLOGY

DESCRIPTIVE NOTE: ORDER NO. TH204-1; 20 SLIDES

ABSTRACT: OFFERS EXAMPLES OF VARIOUS AQUATIC AND TERRESTRIAL HABITATS. ILLUSTRATES SPECIFIC BIOTIC COMMUNITIES, ECOSYSTEMS, DIVERSITY OF SPECIES, AND CHARACTERISTIC ORGANISMS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($49.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000403

TITLE: FLOWING WATERS.

DESCRIPTOR: AQUATIC ANIMALS; *BIOLOGY; *ECOLOGY; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LAKES; *POST SECONDARY EDUCATION; *SLIDES; VISUAL AIDS; *WATER RESOURCES

DESCRIPTIVE NOTE: ORDER NO. TH204-2; 20 SLIDES

ABSTRACT: OFFERS EXAMPLES OF VARIOUS AQUATIC AND TERRESTRIAL HABITATS. ILLUSTRATES SPECIFIC BIOTIC COMMUNITIES, ECOSYSTEMS, DIVERSITY OF SPECIES, AND CHARACTERISTIC ORGANISMS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($49.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000404

TITLE: FUNDAMENTALS OF ANALYTICAL CHEMISTRY.

DESCRIPTOR: *CHEMICAL ANALYSIS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *LABORATORY EQUIPMENT; LABORATORY TECHNICIANS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. WWA201; 10 TRANSPARENCIES

ABSTRACT: DEALS WITH THE MORE FUNDAMENTAL TOOLS USED IN ANALYTICAL CHEMISTRY, INCLUDING VERNIER SCALES, BURET READINGS, SCHEMATIC DIAGRAM OF A PH METER, SCHEMATIC OF THE PH METER ELECTRODES, THE PH TITRATION CURVE, TYPES OF PIPETTES, AND OTHERS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($69.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000405

TITLE: FUNDAMENTALS OF ORGANIC CHEMISTRY.

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *ORGANIC CHEMISTRY; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. WWA208; 8 TRANSPARENCIES

ABSTRACT: INCLUDED ARE TETRAHEDRON CARBON ATOM, ASYMMETRIC CARBON ATOM, POLARIMETER SCHEMATIC, OPTICAL ROTATION EQUATION, ALCOHOL FUNCTIONAL GROUP WITH EXAMPLES, ACID FUNCTIONAL GROUP WITH EXAMPLES, ALDEHYDE FUNCTIONAL GROUP WITH EXAMPLES, KETONE FUNCTIONAL GROUP WITH EXAMPLES, AMINE FUNCTIONAL GROUP WITH EXAMPLES, AND ESTER FUNCTIONAL GROUP WITH EXAMPLES.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($109.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000406

TITLE: PROPERTIES OF GASES.

DESCRIPTOR: *CHEMISTRY; *GAS LAWS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. N201; 14 TRANSPARENCIES

ABSTRACT: ILLUSTRATES THE GAS LAWS IN THE FORM OF GRAPHS AND EXPERIMENTS. DIFFUSION OF GASES, COLLECTION OF GASES OVER WATER, AND MEASUREMENT OF GAS PRESSURE ARE DEPICTED. REAL GASES ARE CONTRASTED WITH AN IDEAL GAS AND COMMON TEMPERATURE SCALES ARE COMPARED. GRAPHS INCLUDED: BOYLE'S LAW, CHARLES' LAW, EFFECTS OF TEMPERATURE ON A BALLOON, PRESSURE-TEMPERATURE, DENSITY-PRESSURE AND DENSITY-TEMPERATURE GRAPHS AND DIAGRAMS, GRAPHAM'S LAW, DIFFUSION EXPERIMENT, DALTON'S LAW EXPERIMENT, AVOGADRO'S LAW, AND OTHERS.

AVAILABILITY: THE LANSFORD PUBLISHING CO. DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($79.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000408

TITLE: COLLIGATIVE PROPERTIES OF SOLUTIONS.

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; VISUAL AIDS; *SOLUTIONS (CHEMISTRY)

DESCRIPTIVE NOTE: ORDER NO. N202; 6 TRANSPARENCIES

ABSTRACT: STARTS WITH RAOULT'S LAW WHICH IS CORRELATED WITH FREEZING POINT LOWERING AND BOILING POINT ELEVATION. A PRESENTATION OF OSMOTIC PRESSURE INCLUDED. ALSO INCLUDES RAOULT'S LAW DIAGRAM FOR A NONVOLATILE SOLUTE, RAOULT'S LAW DIAGRAM WHERE BOTH COMPONENTS ARE VOLATILE, LIQUID-VAPOR COMPOSITION DIAGRAM, VAPOR PRESSURE OF A LIQUID RELATED TO TEMPERATURE, AND BOILING POINT ELEVATION-FREEZING POINT DEPRESSION DIAGRAM.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($39.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW000410

TITLE: WATER WITCH - HOW IT DROWNS IN A DRY HOLE.

PERSONAL AUTHOR: LEHR, J. H.

DESCRIPTOR: *AUDIOVISUAL AIDS; *DRILLING; *FILMS; *GROUNDWATER; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; WATER QUALITY; *WATER RESOURCES; *WATER WELLS

DESCRIPTIVE NOTE: 16MM, 33 MIN., COLOR. CAN BE RENTED FOR $25.00

ABSTRACT: INTRODUCTION TO THE IMPORTANT FACTS ABOUT GROUND WATER, THE USE OF WHICH IS DESTINED TO TRIPLE DURING THE COMING DECADE. IMPROVES THE UNDERSTANDING BY THE PUBLIC OF THE WATER WELL DRILLING INDUSTRY.

AVAILABILITY: NATIONAL WATER WELL ASSOC., 88 EAST BROAD STREET, COLUMBUS, OH 43215 ($350.00)

IRIS ACCESSION NUMBER: EW000413

PUBLICATION DATE: JAN 73

TITLE: DETERMINATION OF ALKALINITY (XT-68).

PERSONAL AUTHOR: DONAHUE, A.E.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; POST SECONDARY EDUCATION; SCIENCE EQUIPMENT; WATER POLLUTION CONTROL; *ALKALINITY; WASTEWATER TREATMENT; *TITRATION

DESCRIPTIVE NOTE: INCLUDED IS A 15 MINUTE TAPE, 74 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATORY PERSONNEL AND WASTEWATER TREATMENT PLANT OPERATORS. TOPICS INCLUDED ARE: (1) ALKALINITY FUNDAMENTALS AND TITRATION CURVES; (2) SAMPLING; (3) APPARATUS; (4) THE STEPWISE PROCEDURE; (5) CALCULATION FORMULA; AND (6) APPLICATIONS OF ALKALINITY DATA. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000416

TITLE: SOMEBODY AROUND HERE MUST BE DOING SOMETHING GOOD.

DESCRIPTOR: *AUDIOVISUAL AIDS; *COMMUNITY ROLE; ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION; *PUBLIC PARTICIPATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 20 MIN., COLOR

ABSTRACT: WHAT A COMMUNITY DID TO COMBAT WATER POLLUTION.

AVAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST ROAD, ELK GROVE VILLAGE, IL 60007 (FREE RENTAL)

IRIS ACCESSION NUMBER: EW000419

PUBLICATION DATE: 70

TITLE: SAFE HANDLING OF CHLORINE.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *CHEMICAL INDUSTRY; *CHLORINE; *FILMS; INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 16 MM, 25 MIN, COLOR

ABSTRACT: PROCEDURES FOR HANDLING CHLORINE CYLINDERS, TON CONTAINERS, TANK CARS AND BARGES ARE OUTLINED IN THIS FILM. ALSO DISCUSSED ARE APPROPRIATE MATERIALS OF CONSTRUCTION, PUMPING CHLORINE, CHECKING STORAGE TANKS, OPERATING VAPORIZERS, REPACKING VALVES, AND TRAINING OPERATORS TO HANDLE CHLORINE SAFELY.

AVAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST ROAD, ELK GROVE VILLAGE, IL 60007 (FREE RENTAL)

INSTITUTION NAME: PITTSBURGH PLATE GLASS.

IRIS ACCESSION NUMBER: EW000425

PUBLICATION DATE: 72

TITLE: FLOODING RIVER - A STUDY IN RIVERINE ECOLOGY.

DESCRIPTOR: AQUATIC ANIMALS; *AUDIOVISUAL AIDS; *ECOLOGY; ENVIRONMENT; *FILMS; *FLOODS; *HYDROLOGY; *RIVERS; *WATER RESOURCES

DESCRIPTIVE NOTE: 16MM, 34 MIN., COLOR; PURCHASE PRICE: $425.00

ABSTRACT: SHOWS HOW MIGRATING SHAD, DUCKS, AMPHIBIANS, THE LAND, AND PLANTS DEPEND ON THE ANNUAL FLOODING CYCLE; EXPLAINS THE RIVER'S ABILITY TO MAINTAIN ITS OWN FLOW DURING RAINFALL; AND IT SHOWS THE COMPLEX ECOLOGICAL SUCCESSIONS THAT RESULT FROM THE RIVER'S NATURAL MEANDERING AND OXBOW LAKE FORMATIONS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 (CAN BE RENTED FOR $50.00)

INSTITUTION NAME: AMHERST COLLEGE.

IRIS ACCESSION NUMBER: EW000435

TITLE: LIVING THINGS IN A DROP OF WATER.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGY; ELEMENTARY SECONDARY EDUCATION; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *WATER RESOURCES

DESCRIPTIVE NOTE: (NO. 2340) 16MM, 10 MIN., COLOR; PURCHASE PRICE: $135.00

ABSTRACT: STRIKING PHOTOMICROGRAPHY PICTURES SINGLE-CELLED AND MULTI-CELLED PLANTS AND ANIMALS. THE FILM HELPS CHILDREN DISCOVER THAT THESE PLANTS AND ANIMALS HAVE THE SAME LIFE FUNCTIONS AS LARGER LIVING THINGS--MOVEMENT, FEEDING, AND REPRODUCTION.

AVAILABILITY: ENCYCLOPEDIA BRITANNICA EDUCATION CORP., 425 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($12.00 RENTAL)

INSTITUTION NAME: ENCYCLOPEDIA BRITANNICA EDUCATION CORP.

IRIS ACCESSION NUMBER: EW000442

TITLE: BASIC MATHEMATICS FOR WATER AND WASTEWATER PERSONNEL - MANUAL.

DESCRIPTOR: *BASIC SKILLS; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL APPLICATIONS; *MATHEMATICS; *OPERATORS; POST SECONDARY EDUCATION; *TECHNICAL MATHEMATICS; WASTE DISPOSAL; *WASTEWATER TREATMENT

ABSTRACT: REVIEW OF BASIC MATH AND APPLICATION TO PLANT OPERATIONS.

AVAILABILITY: BUREAU OF ENVIRONMENTAL HEALTH, DEPT. OF PUBLIC HEALTH, LANSING, MI 48914

INSTITUTION NAME: MICHIGAN DEPT. OF PUBLIC HEALTH.

IRIS ACCESSION NUMBER: EW000443

TITLE: BASIC CHEMISTRY FOR WATER AND WASTEWATER PERSONNEL - MANUAL.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; *OPERATORS; *POST SECONDARY EDUCATION; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER ANALYSIS; WATER QUALITY

ABSTRACT: REVIEW OF BASIC CHEMISTRY AND ITS APPLICATION TO WATER QUALITY CONTROL.

AVAILABILITY: BUREAU OF ENVIRONMENTAL HEALTH, DEPT. OF PUBLIC HEALTH, LANSING, MI 48914

INSTITUTION NAME: MICHIGAN DEPT. OF PUBLIC HEALTH.

IRIS ACCESSION NUMBER: EW000444

TITLE: APPLIED HYDRAULICS FOR WATER AND WASTEWATER PERSONNEL - MANUAL.

DESCRIPTOR: *DESIGN; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *MANUALS; *OPERATIONS; POST SECONDARY EDUCATION; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER TREATMENT

ABSTRACT: USE OF HYDRAULICS IN DESIGN AND OPERATION OF WATER QUALITY CONTROL FACILITIES.

AVAILABILITY: BUREAU OF ENVIRONMENTAL HEALTH, DEPT. OF PUBLIC HEALTH, LANSING, MI 48914

INSTITUTION NAME: MICHIGAN DEPT. OF PUBLIC HEALTH.

IRIS ACCESSION NUMBER: EW000445

PUBLICATION DATE: 70

TITLE: COURSE OUTLINE: TREATMENT PLANT OPERATOR - WATER I.

DESCRIPTOR: *COURSE CONTENT; CURRICULUM; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE OF THREE-PART SET (EW000445-EW000447) IS $30.00

ABSTRACT: OUTLINE FOR INSTRUCTOR IN PLANNING A BEGINNING COURSE IN WATER TREATMENT PLANT OPERATIONS.

AVAILABILITY: DEPARTMENT OF ENVIRONMENTAL QUALITY, STATE OFFICE BUILDING, CHEYENNE, WY 80001 ($12.00)

INSTITUTION NAME: WYOMING DEPT. OF ENVIRONMENTAL QUALITY.

IRIS ACCESSION NUMBER: EW000446

PUBLICATION DATE: 70

TITLE: COURSE OUTLINE: TREATMENT PLANT OPERATOR - WATER II.

DESCRIPTOR: *COURSE CONTENT; *CURRICULUM; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE OF THREE-PART SET (EW000445-EW000447) IS $30.00

ABSTRACT: OUTLINE FOR INSTRUCTOR IN PLANNING AN INTERMEDIATE COURSE IN WATER TREATMENT PLANT OPERATIONS.

AVAILABILITY: DEPARTMENT OF ENVIRONMENTAL QUALITY, STATE OFFICE BUILDING, CHEYENNE, WY 82001 ($12.00)

INSTITUTION NAME: WYOMING DEPT. OF ENVIRONMENTAL QUALITY.

IRIS ACCESSION NUMBER: EW000447

PUBLICATION DATE: 70

TITLE: COURSE OUTLINE: TREATMENT PLANT OPERATOR - WATER III.

DESCRIPTOR: *COURSE CONTENT; *CURRICULUM; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE OF THREE-PART SET (EW000445-EW000447) IS $30.00

ABSTRACT: OUTLINE FOR INSTRUCTOR IN PLANNING ADVANCED COURSE IN WATER TREATMENT PLANT OPERATIONS.

AVAILABILITY: DEPARTMENT OF ENVIRONMENTAL QUALITY, STATE OFFICE BUILDING, CHEYENNE, WY 82001 ($12.00)

INSTITUTION NAME: WYOMING DEPT. OF ENVIRONMENTAL QUALITY.

IRIS ACCESSION NUMBER: EW000455

ERIC ACCESSION NUMBER: ED153789

PUBLICATION DATE: 75

TITLE: STABILIZATION POND OPERATION AND MAINTENANCE MANUAL.

PERSONAL AUTHOR: SEXAUER, WILLARD N.; KARN, ROGER V.

INSTITUTION CODE: BBB15529

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MAINTENANCE; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; SAFETY; *WATER POLLUTION CONTROL; *STABILIZATION PONDS; *WASTEWATER TREATMENT; OPERATIONS (WASTEWATER)

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 210P.; CONTAINS MARGINAL LEGIBILITY IN APPENDIX B

ISSUE: R11SEP78

ABSTRACT: THIS MANUAL PROVIDES THE WASTE STABILIZATION POND OPERATOR WITH THE BASICS NECESSARY FOR THE TREATMENT OF WASTEWATER IN STABILIZATION PONDS. THE MATERIAL IS ORGANIZED AS A COMPREHENSIVE GUIDE THAT FOLLOWS THE NORMAL OPERATION AND MAINTENANCE PROCEDURES FROM THE TIME THE WASTEWATER ENTERS THE LEFT STATION UNTIL IT LEAVES THE POND. A COMPREHENSIVE GLOSSARY OF WASTEWATER TERMS IS INCLUDED IN THE APPENDIX. (CS)

GRANT NUMBER: EPA-900398

INSTITUTION NAME: MINNESOTA POLLUTION CONTROL AGENCY, ROSEVILLE.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW000466

PUBLICATION DATE: 73

TITLE: ALKALINITY (XT-66).

PERSONAL AUTHOR: HALLBACH, P. F.; DONAHUE, A. E.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *ALKALINITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS AN 11 MINUTE TAPE, 65 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR PROFESSIONAL CHEMISTS AND SANITARY ENGINEERS. TOPICS INCLUDED IN THE MODULE ARE: (1) A GENERAL CONSIDERATION OF ALKALINITY IN WATER SUPPLIES, (2) SUMMARY OF LABORATORY DETERMINATIONS, (3) CLASSIFICATION SYSTEMS FOR HYDROXIDE, CARBONATE, AND BICARBONATE, AND (4) APPLICATIONS OF ALKALINITY DATA. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000467

PUBLICATION DATE: SEP 72

TITLE: DETERMINATION OF AMMONIA NITROGEN (XT-67).

PERSONAL AUTHOR: HALLBACH, P. F.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *NITROGEN; WASTEWATER TREATMENT; *AMMONIA

DESCRIPTIVE NOTE: INCLUDED IS AN 8 MINUTE TAPE, 45 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATORY PERSONNEL AND WASTEWATER TREATMENT PLANT OPERATORS. TOPICS INCLUDE: (1) THE METHOD OF DETERMINATION OF AMMONIA NITROGEN; (2) THE REQUIRED APPARATUS AND REAGENTS; (3) THE STEPWISE PROCEDURE; AND (4) AN EXAMPLE OF CALCULATING AMMONIA NITROGEN FROM TEST RESULTS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000468

TITLE: SIMPLIFIED HYDRAULICS.

PERSONAL AUTHOR: MCNICKLE, L. S.

DESCRIPTOR: *HYDRAULICS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

ABSTRACT: REVIEW OF BASIC HYDRAULIC PRINCIPLES AND THEIR APPLICATION IN WATER QUALITY CONTROL.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW000470

PUBLICATION DATE: 75

TITLE: FIRST COURSE WORKBOOK FOR WATER TREATMENT PLANT OPERATORS.

PERSONAL AUTHOR: SHEETS, W. D.; BLANCHARD, D. A.

DESCRIPTOR: EQUIPMENT; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MANPOWER DEVELOPMENT; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; SAFETY; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER TREATMENT

ABSTRACT: WORKBOOK FOR WATER TREATMENT PLANT OPERATIONAL PROBLEMS.

AVAILABILITY: OPERATOR TRAINING COMMITTEE OF OHIO, INC., P.O. BOX 626, WORTHINGTON, OHIO 43085 ($16.00)

IRIS ACCESSION NUMBER: EW000471

PUBLICATION DATE: 75

TITLE: SECOND COURSE WORKBOOK FOR WATER TREATMENT PLANT OPERATORS.

PERSONAL AUTHOR: SHEETS, W. D.; HAGERTY, L. T.

DESCRIPTOR: EQUIPMENT; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MANPOWER DEVELOPMENT; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; SAFETY; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER TREATMENT

ABSTRACT: WORKBOOK FOR ADVANCED WATER TREATMENT PLANT OPERATIONAL PROBLEMS.

AVAILABILITY: OPERATOR TRAINING COMMITTEE OF OHIO, INC., P.O. BOX 626, WORTHINGTON, OHIO 43085 ($20.00)

IRIS ACCESSION NUMBER: EW000472

PUBLICATION DATE: 69

TITLE: CHLORINE MANUAL.

DESCRIPTOR: *CHEMICAL REACTIONS; *CHLORINE; DISEASE CONTROL; EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *POST SECONDARY EDUCATION; WATER TREATMENT; *SAFETY

DESCRIPTIVE NOTE: 30P. NO. 1, 4TH ED.

ABSTRACT: THIS MANUAL IS INTENDED TO BE A COMPENDIUM OF EXPERIENCE, AVAILABLE TO THE INSTITUTE, OF MATERIALS, EQUIPMENT AND PRACTICES THAT CONTRIBUTE TO SAFE HANDLING, STORAGE, SHIPMENT AND USE OF CHLORINE. IMPORTANT PROPERTIES OF CHLORINE ARE INCLUDED AS WELL AS PRACTICAL METHODS OF DEALING WITH EMERGENCIES THAT MAY BE ENCOUNTERED.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000485

PUBLICATION DATE: DEC 75

TITLE: A PRIMER ON GROUND WATER.

PERSONAL AUTHOR: BALDWIN; MCGUINNESS

DESCRIPTOR: *GROUNDWATER; HYDROLOGY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *WATER CHARACTERISTICS; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: NO. 2401-0004

ABSTRACT: INTRODUCTION TO THE NATURE OF GROUNDWATER.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHNGTON, D.C. 20402 ($0.95)

IRIS ACCESSION NUMBER: EW000486

PUBLICATION DATE: MAR 74

TITLE: A PRIMER ON WATER QUALITY.

PERSONAL AUTHOR: BALDWIN; SWENSON

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; UTILITIES; *WATER QUALITY; WATER RESOURCES

DESCRIPTIVE NOTE: NO. 2401-0005

ABSTRACT: INTRODUCTION TO SIMPLE ASPECTS OF WATER QUALITY.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($0.65)

IRIS ACCESSION NUMBER: EW000487

PUBLICATION DATE: JAN 76

TITLE: A PRIMER ON WATER.

PERSONAL AUTHOR: LANGHEIM; LEOPOLD

DESCRIPTOR: HYDROLOGY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *UTILITIES; WATER CHARACTERISTICS; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: NO. 2401-0003

ABSTRACT: INTRODUCTION TO WATER SUPPLY.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($1.50)

IRIS ACCESSION NUMBER: EW000488

ERIC ACCESSION NUMBER: ED068309

PUBLICATION DATE: OCT 70

TITLE: INVESTIGATING WATER PROBLEMS. A WATER ANALYSIS MANUAL.

PERSONAL AUTHOR: RENN, CHARLES E.

DESCRIPTOR: *ENVIRONMENT; ENVIRONMENTAL INFLUENCES; INSTRUCTIONAL MATERIALS; *MANUALS; NATURAL RESOURCES; PROBLEM SOLVING; *SCIENCE EXPERIMENTS; *TESTING; WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER ANALYSIS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 72P.

ISSUE: R1EFEB73

ABSTRACT: THIS BOOKLET HAS BEEN PREPARED EXPRESSLY FOR TEACHERS AND STUDENTS WHO ARE INTERESTED IN INVESTIGATING THE QUALITY OF WATER SUPPLIES. THE INTENT IS TO PROVIDE TECHNICAL SUPPORT AND BACKGROUND INFORMATION CONCERNING WATER QUALITY FACTORS AND TO GIVE BASIC INFORMATION ON FIELD AND LABORATORY WATER TESTING TECHNIQUES. IT IS ASSUMED THAT THE READER IS NOT AN EXPERIENCED CHEMIST, BUT IS AN INQUIRER SEEKING THE ESSENTIAL INFORMATION THAT IS NEEDED FOR MEANINGFUL INTERPRETATION OF THE RESULTS OF FIELD STUDIES OF AQUATIC ENVIRONMENTS. MANY OF THE TEST METHODS COVERED IN THIS BOOKLET ARE WELL KNOWN ANALYTICAL PROCEDURES, AND COMPLETE INFORMATION ON THE REAGENT SYSTEMS IS GIVEN. A GLOSSARY OF TERMS, A BIBLIOGRAPHY, AND A WATER ANALYSIS REPORT FORM CONCLUDE THE NARRATIVE MATERIAL. (BL)

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, CHESTERTOWN, MARYLAND 21620

IRIS ACCESSION NUMBER: EW000508

PUBLICATION DATE: 68

TITLE: CORRESPONDENCE COURSE MANUAL FOR WATER PLANT OPERATORS: CLASS D.

PERSONAL AUTHOR: AUSTIN, J. H.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ARITHMETIC; CHEMISTRY; COURSE CONTENT; *CORRESPONDENCE COURSES; *INSTRUCTIONAL MATERIALS; *MANUALS; MATHEMATICS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; UTILITIES; *WASTEWATER TREATMENT; WATER CHARACTERISTICS; *WATER QUALITY

DESCRIPTIVE NOTE: 327P. 2ND ED. (1ST ED. 1958); SUPPLEMENTAL BOOKLETS: "ASSIGNMENTS AND TESTS", 72PP; TESTS (22)

ABSTRACT: EMPHASIZES MATHEMATICAL, SCIENTIFIC AND EDUCATIONAL TRAINING REQUIREMENTS FOR CLASS D CERTIFICATION. FIRST IN SERIES OF 4 COURSES (PROGRESSIVELY MORE ADVANCED). ARITHMETIC OPERATIONS (NUMBER, FRACTIONS, DECIMALS, GEOMETRY, WEIGHTS AND MEASURES) PROVIDE INITIAL EXPOSURE FOLLOWED BY CHAPTERS OUTLINING EQUATIONS, ANALYTICAL TECHNIQUES AND TECHNICAL DESCRIPTIONS USED IN SPECIFIC TREATMENT PROCESSES. EDITED BY JH AUSTIN (1ST ED EDITED BY WG MILLER). EXAMPLES, ILLUS, GRAPHS, TABLES, PROBLEMS, TESTS, BIBLIOGRAPHY.

AVAILABILITY: WPCASC, 8009 SPRING FLOWER RD., COLUMBIA, SC 29201 ($12.00)

INSTITUTION NAME: CLEMSON UNIVERSITY, ENVIRONMENTAL SYSTEMS ENGINEERING.

IRIS ACCESSION NUMBER: EW000509

PUBLICATION DATE: 71

TITLE: CORRESPONDENCE COURSE MANUAL FOR WATER PLANT OPERATORS: CLASS C.

DESCRIPTOR: *CERTIFICATION; *INSTRUCTIONAL MATERIALS; *MANUALS; *MATHEMATICS; *OPERATIONS WATER; *WATER TREATMENT; ANALYTICAL TECHNIQUES; CORRESPONDENCE COURSES; FACILITIES; GRAPHICAL METHODS; POST SECONDARY EDUCATION; RECORDS; SAFETY; WATER ANALYSIS

DESCRIPTIVE NOTE: 304P. 2ND ED (1ST ED. 1961), SUPPLEMENTAL BOOKLETS: ASSIGMENTS AND TESTS, 45 PP; TESTS (17)

ABSTRACT: EMPHASIZES MATHEMATICAL, SCIENTIFIC, AND TECHNICAL EDUCATIONAL TRAINING REQUIREMENTS FOR CLASS C CERTIFICATION. SECOND IN SERIES OF 4 COURSES (PROGRESSIVELY MORE DIFFICULT). WATER ANALYSIS TREATED IN DEPTH (BACTERIAL, CHEMICAL, MICROSCOPIC, ETC). MATHEMATICAL EMPHASIS ON FORMULAS, EQUATIONS, CONVERSIONS, EXPONENTIALS AND LOGARITHMS, AND GRAPH THEORY. ADMINISTRATIVE ASPECTS OF PLANT OPERATION INTRODUCED. THE TREATMENT SEQUENCE (SOURCE, PLANT, POST PLANT) COVERED FOR ALL PROCESSES. EXAMPLES, ILLUS. TABLES,GRAPHS,PROBLEMS.

AVAILABILITY: WPCASC, 8009 SPRING FLOWER RD. COLUMBIA, SC 29201 ($12.00)

INSTITUTION NAME: CLEMSON UNIVERSITY, ENVIRONMENTAL SYSTEMS ENGINEERING.

IRIS ACCESSION NUMBER: EW000510

PUBLICATION DATE: 62

TITLE: CORRESPONDENCE COURSE MANUAL FOR WATER PLANT OPERATORS: CLASS B.

DESCRIPTOR: ANALYTICAL TECHNIQUES; *CERTIFICATION; CHEMISTRY; CORRESPONDENCE COURSES; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MANUALS; MATHEMATICS; MICROBIOLOGY; *OPERATIONS (WATER); PHYSICS; *POST SECONDARY EDUCATION; *RECORDS; *WATER ANALYSIS; *WATER TREATMENT

DESCRIPTIVE NOTE: 298P. SUPPLEMENTAL BOOKLETS: ASSIGNMENTS AND TESTS, APPROX 60 PP; TESTS (26)

ABSTRACT: EMPHASIZES THEORETICAL MATHEMATICAL AND SCIENTIFIC EDUCATIONAL TRAINING REQUIREMENTS FOR CLASS B CERTIFICATION. ALGEBRA, QUADRATIC EQUATIONS, SYSTEMS OF EQUATIONS, EXPONENTS AND LOGARITHMS, AND STOICHIOMETRY CONSTITUTE FIRST PORTION; ORGANIC CHEMISTRY AND PHYSICS RECEIVE INTRODUCTORY TREATMENT AND FURTHER EMPHASIS IS PLACED ON WATER ANALYSIS AND TREATMENT. THIRD IN SERIES OF 4 COURSES (PROGRESSIVELY MORE DIFFICULT). EXAMPLES, ILLUS, TABLES, GRAPHS, PROBLEMS, TESTS.

AVAILABILITY: WPCASC, 8009 SPRING FLOWER RD., COLUMBIA, SC 29201 ($12.00)

INSTITUTION NAME: CLEMSON UNIVERSITY, ENVIRONMENTAL SYSTEMS ENGINEERING.

IRIS ACCESSION NUMBER: EW000511

PUBLICATION DATE: 69

TITLE: CORRESPONDENCE COURSE MANUAL FOR WASTEWATER PLANT OPERATORS: CLASS D.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ARITHMETIC; *CORRESPONDENCE COURSES; *INSTRUCTIONAL MATERIALS; *MANUALS; *OPERATIONS WASTEWATER; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; CHEMISTRY; COURSE CONTENT; MATHEMATICS; WASTE DISPOSAL

DESCRIPTIVE NOTE: 424P. 2ND ED (1ST. 1959), SUPPLEMENTAL BOOKLETS: "ASSIGNMENTS AND TESTS", 81 PP; TESTS (24)

ABSTRACT: EMPHASIZES MATHEMATICAL, SCIENTIFIC AND TECHNICAL EDUCATIONAL TRAINING REQUIREMENTS FOR CLASS D CERTIFICATION. FIRST IN SERIES OF 4 COURSES (PROGRESSIVELY MORE ADVANCED). ARITHMETIC OPERATIONS (NUMBER, FRACTIONS, DECIMALS, GEOMETRY, WEIGHTS AND MEASURES) PROVIDE INITIAL EXPOSURE FOLLOWED BY CHAPTERS OUTLINING EQUATIONS, ANALYTICAL TECHNIQUES AND TECHNICAL DESCRIPTIONS USED IN SPECIFIC TREATMENT PROCESSES.

AVAILABILITY: WPCASC, 8009 SPRING FLOWER RD. COLUMBIA, SC 29201 ($12.00)

INSTITUTION NAME: CLEMSON UNIVERSITY, ENVIRONMENTAL SYSTEMS ENGINEERING.

IRIS ACCESSION NUMBER: EW000512

PUBLICATION DATE: 62

TITLE: CORRESPONDENCE COURSE MANUAL FOR WASTEWATER PLANT OPERATORS: CLASS C.

DESCRIPTOR: ANALYTICAL TECHNIQUES; BIOLOGY; *CERTIFICATION; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; MATHEMATICS; MICROBIOLOGY; *OPERATIONS (WASTEWATER); PHYSICS; POST SECONDARY EDUCATION; PUMPS; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 322P. SUPPLEMENTAL BOOKLETS: ASSIGNMENTS AND TESTS, 71 PP; TESTS (23)

ABSTRACT: EMPHASIZES MATHEMATICAL, SCIENTIFIC AND TECHNICAL EDUCATIONAL TRAINING REQUIREMENTS FOR CLASS C CERTIFICATION. SECOND IN SERIES OF 4 COURSES (PROGRESSIVELY MORE DIFFICULT). MORE DEPTH GIVEN TO THEORETICAL UNDERSTANDING OF WHY CERTAIN REACTIONS TAKE PLACE AND WHY CERTAIN PROCESSES ARE USED IN WATER PURIFICATION AND SEWAGE STABILIZATION. MATHEMATICAL EMPHASIS ON FORMULAS, EQUATIONS, RATIOS AND GRAPHING THEORY. EXAMPLES, ILLUS, GRAPHS, TABLES, PROBLEMS, TESTS.

AVAILABILITY: WPCASC, 8009 SPRING FLOWER RD., COLUMBIA, SC 29201 ($12.00)

INSTITUTION NAME: CLEMSON UNIVERSITY, ENVIRONMENTAL SYSTEMS ENGINEERING.

IRIS ACCESSION NUMBER: EW000514

TITLE: MICROBIOLOGY APPLICATIONS: A LABORATORY MANUAL IN GENERAL MICROBIOLOGY, 3RD ED.

PERSONAL AUTHOR: BENSON, H. J.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *MICROBIOLOGY; *POST SECONDARY EDUCATION; ANALYTICAL TECHNIQUES; BIOLOGY

ABSTRACT: LAB MANUAL FOR AN INTRODUCTORY COURSE IN MICROBIOLOGY.

AVAILABILITY: WM. C. BROWN CO. PUBLISHERS, 2460 KERPER BLVD. DUBUQUE, IA 52001 ($10.95).

IRIS ACCESSION NUMBER: EW000517

PUBLICATION DATE: MAY 69

TITLE: INTERMEDIATE WATER COURSE.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; COURSE CONTENT; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; PUMPS; *UTILITIES; *WASTEWATER TREATMENT; WATER CHARACTERISTICS; *WATER DISTRIBUTION; *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT; *SEWERS

DESCRIPTIVE NOTE: 265P. (NTTC 215, NAVSAC P-334)

ABSTRACT: THIS CORRESPONDENCE COURSE, COMPRISING THREE VOLUMES, IS INTENDED TO PROVIDE BASIC MATERIAL NECESSARY TO UNDERSTAND THE PROCESS OF WATER AND SEWERAGE SYSTEMS AS WELL AS INFORMATION AND GUIDE LINES ON THE OPERATION OF EQUIPMENT ASSOCIATED WITH THE PROCESS.

AVAILABILITY: TECHNICAL TRAINING CENTER, NAVY PUBLIC WORKS CENTER, NORFOLK, VA 23511 ($4.60)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW000525

PUBLICATION DATE: 73

TITLE: WATER MANAGEMENT.

PERSONAL AUTHOR: STRAUSS, S. D.; MARKS, R.

DESCRIPTOR: *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *POLLUTION; *WASTEWATER TREATMENT; *WATER POLLUTION; *WATER TREATMENT; *WATER SUPPLY; *MANAGEMENT; CHEMICAL ANALYSIS; POST SECONDARY EDUCATION; UTILITIES; WASTE DISPOSAL; WATER ANALYSIS; WATER RESOURCES

DESCRIPTIVE NOTE: 128P

ABSTRACT: PART 1, "WATER", COVERS ALL PHASES OF WATER-SUPPLY PROBLEMS. PART 2, "WATER TREATMENT", COVERS BASIC TREATMENT OF CHEMISTRY, CHEMICALS, EQUIPMENT AND SYSTEMS FOR REMOVAL OF WATER IMPURITIES, WITH APPLICATION TO BOILER FEEDWATER REQUIREMENT OVER ENTIRE PRESSURE SPECTRUM OF STEAM GENERATION. PART 3, "WASTEWATER TREATMENT", TAKES A PRACTICAL LOOK AT POLLUTED INDUSTRIAL WATER, MICROBIOLOGY AND ANALYSIS; PRESENTS OVERVIEW OF METHODS FOR CORRECTION BEFORE DISCHARGE.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT. 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($7.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000526

PUBLICATION DATE: 62

TITLE: MOTOR CONTROL, PART 1 AND PART 2.

DESCRIPTOR: *ELECTRONICS; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MACHINISTS; *MOTORS; *POST SECONDARY EDUCATION

ABSTRACT: A COMPREHENSIVE REVIEW OF MOTOR OPERATION. STARTING, ACCELERATING AND PROTECTING AC MOTORS. STARTING METHODS INCLUDE ACROSS-THE-LINE, PRIMARY RESISTANCE, AUTOTRANSFORMER, PART-WINDING AND WYE-DELTA. BASIC HOOKUPS AND FREQUENTLY USED PILOT DEVICES ARE DISCUSSED. CONTROL METHODS FOR ADJUSTABLE-SPEED DRIVES USING BOTH AC AND DC MOTORS. POWER AMPLIFIERS AND REGULATORS ARE DESCRIBED. CIRCUITS FOR JOGGING, INDEXING AND BRAKING ARE ALSO ILLUSTRATED AND EXPLAINED.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($3.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000528

PUBLICATION DATE: 55

TITLE: MECHANICAL PACKING.

DESCRIPTOR: *EQUIPMENT; INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *LUBRICATION; *MAINTENANCE; *MECHANICAL EQUIPMENT; MECHANICS; *POST SECONDARY EDUCATION; *PACKING

ABSTRACT: BASICS AND KNOW-HOW OF PACKING. SKETCHES, CURVES AND DETAILED ILLUSTRATIONS TELL YOU HOW A PACKING SEALS, HOW IT IS APPLIED, HOW TO PREVENT COSTLY ROD AND SHAFT WEAR.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000529

PUBLICATION DATE: 54

TITLE: GASKETS.

DESCRIPTOR: *GASKETS; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; EQUIPMENT; INDUSTRY

DESCRIPTIVE NOTE: 20P

ABSTRACT: COVERS VARIOUS GASKET MATERIALS INCLUDING ASBESTOS, NATURAL AND SYNTHETIC RUBBER, NEOPRENE, KELF, PHENOLIC RESINS AND METALS. HOW TO LAY OUT, CUT, INSTALL GASKETS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT. 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000530

PUBLICATION DATE: 72

TITLE: PUMPS - 1972.

PERSONAL AUTHOR: OKEEFE, W.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *PUMPS

DESCRIPTIVE NOTE: 32P.

ABSTRACT: AN INTRODUCTION TO PUMPS OF ALL CLASSES. IMPORTANT FACTS ABOUT INDUSTRIAL PUMPING IN EASY-TO-READ FORM.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($3.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000531

PUBLICATION DATE: 62

TITLE: LUBRICANTS.

DESCRIPTOR: *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *LUBRICATION; *LUBRICANTS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16P.

ABSTRACT: A COMPREHENSIVE REVIEW ON THE SELECTION OF LUBRICANTS. DISCUSSES ADDITIVES, MINERAL OILS, SYNTHETICS, HYDRAULIC FLUIDS, GREASES AND SOLID LUBES, AND HOW TO USE THEM.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000532

PUBLICATION DATE: 58

TITLE: ELECTRICAL DISTRIBUTION PROTECTION.

DESCRIPTOR: ACCIDENT PREVENTION; *ELECTRICAL SYSTEMS; *INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *POST SECONDARY EDUCATION; *SAFETY; *UTILITIES

DESCRIPTIVE NOTE: 32P.

ABSTRACT: COMPREHENSIVE REVIEW OF ELECTRICAL DISTRIBUTION PROTECTION DEVICES--CIRCUIT BREAKERS, FUSES, REACTORS, ETC. CHARTS HELP SELECT THE BEST DEVICE FOR YOUR DISTRIBUTION SYSTEM.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000533

PUBLICATION DATE: 59

TITLE: BALANCING ROTATING MACHINERY.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *ROTATING MACHINERY

DESCRIPTIVE NOTE: 24P.

ABSTRACT: COMPREHENSIVE REVIEW OF BALANCING ROTATION MACHINERY. HOW TO MEASURE VIBRATION AND HOW TO CORRECT IT.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.25)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW000538

PUBLICATION DATE: 69

TITLE: ATOMIC ABSORPTION (XT-26).

PERSONAL AUTHOR: HALLBACH, P. F.

DESCRIPTOR: *AUDIOVISUAL AIDS; *COLLEGE SCIENCE; INSTRUMENTATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *SPECTROSCOPY; *WATER POLLUTION CONTROL; *METALS

DESCRIPTIVE NOTE: INCLUDED IS A 20 MINUTE TAPE, 52 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W ST. CLAIR, CINCINNATI, OH 45268

ABSTRACT: THE BASIC THEORY OF ATOMIC ABSORPTION SPECTROSCOPY; THE DESIGN FUNDAMENTALS OF THE INSTRUMENTATION INVOLVED; KINDS OF INTERFERENCES THAT CAN BE ENCOUNTERED AND METHODS FOR ELIMINATING THOSE EFFECTS; METHODS FOR INCREASING SENSITIVITY AND THE APPLICATION OF ATOMIC ABSORPTION INSTRUMENTATION FOR THE ANALYSIS OF TRACE METALS IN WATER. (RH)

IRIS ACCESSION NUMBER: EW000539

PUBLICATION DATE: OCT 71

TITLE: CHEMICAL OXYGEN DEMAND (COD) (XT-27).

PERSONAL AUTHOR: HALLBACH, P. F.; DONAHUE, A. E.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *OXYGEN; WASTEWATER TREATMENT; *CHEMICAL OXYGEN DEMAND

DESCRIPTIVE NOTE: INCLUDED IS A 17 MINUTE TAPE, 60 SLIDES, SCRIPT, QUIZ, AND A TEST. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR CHEMISTS, BIOLOGISTS AND ENGINEERS HAVING A PROFESSIONAL BACKGROUND AND RESPONSIBILITY IN PERFORMING, USING, OR INTERPRETING CHEMICAL ANALYSIS FOR WATER QUALITY. IT PRESENTS AN INTRODUCTION TO THE CHEMICAL OXYGEN DEMAND (COD) PROCEDURE. IT PRESENTS THE BASIS OF THE TEST, HOW IT DIFFERS FROM THE BIOCHEMICAL OXYGEN DEMAND (BOD) TEST, POTASSIUM DICHROMATE AS AN OXIDIZING AGENT, THE USE OF BLANK AND REFLUX CONDENSERS, THE ROLE OF FERROUS AMMONIUM SULFATE AND FERROIN, ETC., SAMPLE PRESERVATION, APPLICATIONS OF TEST RESULTS, AND COD/BOD RATIOS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000540

PUBLICATION DATE: APR 76

TITLE: DISSOLVED OXYGEN DETERMINATION (XT-29).

PERSONAL AUTHOR: FELDMANN, C. R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *OXYGEN; WASTEWATER TREATMENT; *DISSOLVED OXYGEN

DESCRIPTIVE NOTE: INCLUDED IS A 15 MINUTE TAPE, 72 SLIDES, A SCRIPT, QUIZ, AND KEY. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATORY PERSONNEL IN CHEMISTRY. IT COVERS SAMPLING TECHNIQUES, BASIC CHEMISTRY OF THE WINKLER DISSOLVED OXYGEN DETERMINATION AND THE ALSTERBERG AZIDE MODIFICATION, METHODS FOR THE ADDITION OF REAGENTS, SAMPLE PRESERVATION, AND THE BASIC CALCULATIONS USED IN THE DETERMINATION. PHOTOS OF RELEVANT LABORATORY EQUIPMENT ARE INCLUDED.

IRIS ACCESSION NUMBER: EW000541

PUBLICATION DATE: OCT 71

TITLE: DETERMINATION OF PHENOLICS (XT-28).

PERSONAL AUTHOR: HALLBACH, P. F.; DONAHUE, A. E.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *PHENOLICS; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 17 MINUTE TAPE, 64 SLIDES, A SCRIPT, QUIZ, AND KEY. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR CHEMISTS, BIOLOGISTS, AND ENGINEERS HAVING A PROFESSIONAL BACKGROUND AND RESPONSIBILITY FOR PERFORMING, USING OR INTERPRETING CHEMICAL ANALYSIS FOR WATER QUALITY. IT PRESENTS AN INTRODUCTION TO THE DETERMINATION OF PHENOLICS. THE TOPICS COVERED ARE SOURCES AND USES OF PHENOLICS, BIOLOGICAL TREATMENT, EFFECTS ON FISH AND WATER QUALITY, THE 4-AMINOANTIPYRINE REACTION, SAMPLE PRESERVATION, PROCEDURE INTERFERENCES, AND REMEDIES. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000542

PUBLICATION DATE: JUL 76

TITLE: THE DETERMINATION OF PHOSPHORUS (XT-44).

PERSONAL AUTHOR: FELDMANN, C. R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *PHOSPHORUS; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 14 MINUTE TAPE, 53 SLIDES, A SCRIPT, QUIZ, AND KEY. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATORY PERSONNEL IN CHEMISTRY. IT PRESENTS THE REASONS FOR DETERMINING PHOSPHORUS. IT CONTAINS AN EXPLANATION OF PHOSPHORUS TERMINOLOGY, AND THE OFFICE OF WATER PROGRAMS ANALYTICAL PROCEDURE. THE DISCUSSION OF PROCEDURE INCLUDES THE BASIC CHEMISTRY INVOLVED, THE APPLICABILITY RANGE, SAMPLE COLLECTION AND PRESERVATION, FILTRATION AND DIGESTION, PH ADJUSTMENT, REAGENT PREPARATION, COLOR DEVELOPMENT AND SPECTROPHOTOMETRIC DETERMINATION, CARE OF GLASSWARE, AND POSSIBLE INTERFERENCES. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000543

PUBLICATION DATE: NOV 70

TITLE: LET'S INVENTORY YOUR CHLORINE HANDLING PRACTICES (XT-35).

PERSONAL AUTHOR: MCEWEN, ROBERT S.

DESCRIPTOR: *AUDIOVISUAL AIDS; CHEMISTRY; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; *SAFETY; *WATER POLLUTION CONTROL; *CHLORINE; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 32 MINUTE TAPE, 80 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR ALL PERSONNEL IN WATER SUPPLY AND WASTEWATER TREATMENT PLANTS. IT DISCUSSES THE HANDLING OF ELEMENTAL CHLORINE. THE PRINCIPLE DIVISIONS OF INFORMATION ARE PHYSICAL AND CHEMICAL CHARACTERISTICS OF CHLORINE, SAFETY REQUIREMENTS FOR THE SIX SEGMENTS OF TYPICAL CHLORINE FEED SYSTEMS, CHLORINE EMERGENCY PROCEDURES, IN-PLANT OPERATING PROCEDURES FOR SAFE HANDLING OF CHLORINE (15 ITEMS), AND SOURCES OF ADDITIONAL INFORMATION. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000544

PUBLICATION DATE: JUN 71

TITLE: DISSOLVED OXYGEN ANALYSIS - ACTIVATED SLUDGE CONTROL TESTING (XT-43).

PERSONAL AUTHOR: LUDZACK, F. J.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *OXYGEN; WASTEWATER TREATMENT; DISSOLVED OXYGEN; *ACTIVATED SLUDGE

DESCRIPTIVE NOTE: INCLUDED IS A 34 MINUTE TAPE, 72 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR ADVANCED WASTEWATER TREATMENT PLANT OPERATORS OR PLANT CONTROL SUPERVISORS. RAPID AND VALID TECHNIQUES ARE DESCRIBED FOR CONTROL OF THE ACTIVATED SLUDGE TREATMENT PROCESS USING ELECTRONIC MEASUREMENT OF DO AND DO CHANGES. SAMPLE DATA ARE DISCUSSED FOR INTERPRETATION OF SLUDGE CONDITION IN RESPONSE T STABILIZATION, FEED, LOAD RATIO OR CONDITIONS. INFORMATI OBTAINABLE WITHIN 20 MINUTES PROVIDES SUGGESTED CORRECTIV ACTION IN TIME TO UPGRADE EFFLUENT QUALITY. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000545

PUBLICATION DATE: 71

TITLE: OPERATIONAL CONTROL TESTS FOR THE ACTIVATED SLUDG PROCESS - PART I (XT-40).

PERSONAL AUTHOR: WEST, A. W.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS *LABORATORY PROCEDURES; POLLUTION; *POST SECONDAR EDUCATION; WATER POLLUTION CONTROL; *SLUDGE; *SOLID WASTES WASTEWATER TREATMENT; *ACTIVATED SLUDGE

DESCRIPTIVE NOTE: INCLUDED IS A 16 MINUTE TAPE, 51 SLIDES ALSO A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR WASTEWATER WORK OPERATORS WHO WISH TO UPGRADE PLANT PERFORMANCE AND T INCREASE THEIR OWN KNOWLEDGE AND SKILLS. THIS IS PART ONE O A THREE-PART LESSON SERIES ON OPERATIONAL CONTROL TESTS FO THE ACTIVATED SLUDGE PROCESS. ENTITLED "OBSERVATIONS," THI FIRST PART IS CONCERNED WITH THE ACCURATE READING OF METER AND WITH THE VISUAL OBSERVATIONS TO BE MADE BOTH AT TH AERATOR (FOAM CHARACTERISTICS, SLUDGE COLOR AND ODOR) AND A THE FINAL CLARIFIERS (CLARITY, EVIDENCES OF BULKING AND O SEPTIC SOLIDS). PROVISIONAL INTERPRETATIONS TO BE MADE O THESE VISUAL OBSERVATIONS ARE PRESENTED, AND THE EFFECTIV USE OF A SLUDGE BLANKET FINDER IS DISCUSSED IN DETAIL (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000546

PUBLICATION DATE: 71

TITLE: OPERATIONAL CONTROL TESTS FOR THE ACTIVATED SLUDG PROCESS - PART II (XT-41).

PERSONAL AUTHOR: WEST, A. W.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS *LABORATORY PROCEDURES; POLLUTION; *POST SECONDAR EDUCATION; *SOLID WASTES; WATER POLLUTION CONTROL; *SLUDGE WASTEWATER TREATMENT; *ACTIVATED SLUDGE

DESCRIPTIVE NOTE: INCLUDED IS A 17 MINUTE TAPE, 47 SLIDES AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR EXPERIENCE WASTEWATER WORKS OPERATORS WHO WISH TO UPGRADE PLAN PERFORMANCE AND TO INCREASE THEIR OWN KNOWLEDGE AND SKILLS THIS IS PART TWO OF A THREE-PART LESSON SERIES O OPERATIONAL CONTROL TESTS FOR THE ACTIVATED SLUDGE PROCESS THIS PART IS A DETAILED DISCUSSION OF THE PREFERRE TECHNIQUES INVOLVED IN CONDUCTING SETTLOMETER TESTS T DETERMINE SETTLING CHARACTERISTICS AND IN CENTRIFUGIN SAMPLES TO DETERMINE THE CONCENTRATION OF MIXED LIQUOR AN RETURN SLUDGE. HANDLING THE RELATED SAMPLES IS INCLUDE ALONG WITH PROVISIONAL INTERPRETATIONS AND APPLICATIONS O THE TESTS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000547

PUBLICATION DATE: 71

TITLE: OPERATIONAL CONTROL TESTS FOR THE ACTIVATED SLUDGE PROCESS - PART III (XT-42).

PERSONAL AUTHOR: WEST, A. W.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS *LABORATORY PROCEDURES; POLLUTION; *POST SECONDAR EDUCATION; *SOLID WASTES; WATER POLLUTION CONTROL; *SLUDGE WASTEWATER TREATMENT; *ACTIVATED SLUDGE

DESCRIPTIVE NOTE: INCLUDED IS A 22 MINUTE TAPE, 67 SLIDES AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR EXPERIENCE WASTEWATER WORKS OPERATORS WHO WISH TO UPGRADE PLAN PERFORMANCE AND TO INCREASE THEIR OWN KNOWLEDGE AND SKILLS. THIS IS PART THREE OF A THREE-PART LESSON SERIES ON OPERATIONAL CONTROL TESTS FOR THE ACTIVATED SLUDGE PROCESS.

'HIS CONCLUDING PART PRESENTS DEVELOPMENT OF SETTLING AND ONCENTRATION CURVES FROM SETTLOMETER AND CENTRIFUGE TESTS ESULTS, TECHNIQUES FOR CONDUCTING TURBIDITY TESTS AS WELL S THE SIGNIFICANCE OF TURBIDITY RESULTS, A SUMMARY OF ALL 'HE TESTS PRESENTED IN THE THREE-PART SERIES, THE CONTROL DJUSTMENTS WHICH ARE MADE ON THE BASIS OF THESE TEST ESULTS, AND PROGRESSIVE TREND CHARTS OF PROCESS HARACTERISTICS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000548

'UBLICATION DATE: AUG 71

TITLE: UPGRADING BIOLOGICAL TREATMENT (XT-25).

'ERSONAL AUTHOR: WEST, A. W.

ESCRIPTOR: *AUDIOVISUAL AIDS; ENGINEERING; *INSTRUCTIONAL ATERIALS; POLLUTION; *POST SECONDARY EDUCATION; *WATER OLLUTION CONTROL; *PLANT OPERATIONS; *WASTEWATER TREATMENT; BIOLOGICAL TREATMENT

ESCRIPTIVE NOTE: INCLUDED IS A 28 MINUTE TAPE AND 63 LIDES, ALSO A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. T. CLAIR, CINCINNATI, OHIO 45268

BSTRACT: THIS MODULE IS DESIGNED FOR EXPERIENCED AND UPERVISORY WASTEWATER WORKS OPERATORS AND MANAGERIAL ERSONNEL, AND SHOULD ALSO BE OF INTEREST TO DESIGN NGINEERING PERSONNEL. IT DISCUSSES WAYS TO GET MAXIMUM USE F PRESENT EXISTING SECONDARY TREATMENT PROCESSES BY MPROVED OPERATIONAL CONTROL OF DESIGN. IT INCLUDES CASE ISTORIES OF HOW THE POLLUTIONAL STRENGTH OF AN ACTIVATED LUDGE PLANT EFFLUENT WAS REDUCED TO ONE-QUARTER OF ITS ORMER STRENGTH AT ONE LOCATION, AND HOW TRICKLING FILTER RETREATMENT WITH ACTIVATED SLUDGE POLISHING ACCOMPLISHED 9% REDUCTION FOR A COMBINATION OF DOMESTIC SEWAGE AND TRONG MEAT PACKING WASTES AT ANOTHER. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000549

'UBLICATION DATE: 71

TITLE: ULTIMATE DISPOSAL TO THE ENVIRONMENT (XT-30).

'ERSONAL AUTHOR: DEAN

ESCRIPTOR: *INSTRUCTIONAL MATERIALS; LAND USE; *POST ECONDARY EDUCATION; *POLLUTION; RECYCLING; SLIDES; *SOLID ASTES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WASTEWATER TREATMENT; *SLUDGE DISPOSAL

ESCRIPTIVE NOTE: INCLUDES A 42 MINUTE TAPE, 27 SLIDES, AND SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, INCINNATI, OH 45268

BSTRACT: POSSIBLE DISPOSAL SITES FOR LIQUID AND SOLID ASTES ARE PRESENTED ALONG WITH POLLUTIONAL AND ECONOMIC ACTORS RELEVANT TO EACH. SLUDGE DISPOSAL AND THE USE OF LUDGE FOR RECLAIMING MINE SPOIL AND OTHER LOW GRADE SOILS RE CONSIDERED IN DETAIL WITH ON-SITE EXAMPLES OF THE ETHODS CONSIDERED. USING A PERIODIC CHART, A SUMMARY OF ISPOSAL SITE CHOICES AND OF RE-USE POSSIBILITIES FOR COMMON LEMENTS AND THEIR COMPOUNDS IS INCLUDED WITH SPECIAL MPHASIS ON SUCCESSFUL RECLAMATION OF WATER. (RH)

IRIS ACCESSION NUMBER: EW000550

'UBLICATION DATE: OCT 71

ITLE: GRAPHICAL ANALYSIS VIA NORMAL PROBABILITY PAPER XT-47).

'ERSONAL AUTHOR: SANTNER, JOSEPH F.

ESCRIPTOR: *AUDIOVISUAL AIDS; GRAPHS; *INSTRUCTIONAL ATERIALS; *MATHEMATICS; *POST SECONDARY EDUCATION; PROBABILITY; *STATISTICS; WASTEWATER TREATMENT

ESCRIPTIVE NOTE: INCLUDED IS AN 18 MINUTE TAPE, 38 SLIDES, ND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. LAIR, CINCINNATI, OHIO 45268

BSTRACT: THIS MODULE IS DESIGNED FOR ANYONE REQUIRED TO EST IF A SET OF DATA IS NORMALLY DISTRIBUTED. IT CAN ALSO E USED FOR THOSE INTERESTED IN GRAPHICAL ANALYSIS ECHNIQUES PER SE. THREE PREREQUISITE FOR THE VIEWER ARE NTRODUCTORY KNOWLEDGE ABOUT THE NORMAL CURVE, ABILITY TO LOT DATA ON A COORDINATE SYSTEM, AND ABILITY TO DRAW A LINE F BEST FIT THROUGH DATA PLOTTED ON A COORDINATE SYSTEM. TUDENTS ARE INTRODUCED TO GRAPHICAL ANALYSIS OF DATA FOR ORMAL DISTRIBUTION USING NORMAL PROBABILITY PAPER ONLY. TUDENTS ARE TAUGHT HOW TO PLOT DATA ON NORMAL PAPER AND SCERTAIN IF IT IS NORMAL. IF THE DATA ARE NORMAL, THEN THEY STIMATE THE MEAN AND THE STANDARD DEVIATION. IF THE DATA RE NOT NORMAL, THE STUDENTS IDENTIFY WHY SOME NONLINEAR RAPHS ARE NOT NORMAL. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000552

'UBLICATION DATE: 69

TITLE: SAFETY PROGRAM GUIDE (XT-38).

ESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; QUIPMENT (PLANT); *INDUSTRIAL SAFETY; *INSTRUCTIONAL ATERIALS; POST SECONDARY EDUCATION; RECORDS; *SAFETY; SLIDES

ESCRIPTIVE NOTE: 20 MIN. TAPE, 39 SLIDES, AND SCRIPT; VAILABLE ON LOAN FROM NTOTC, 26 W ST CLAIR, CINCINNATI, OH 5268

BSTRACT: A GUIDE FOR ESTABLISHING AN EFFECTIVE SAFETY ROGRAM INCLUDING THE ROLE OF MANAGEMENT, ORGANIZATION EQUIRED, RECORD-KEEPING, ACCIDENT INVESTIGATION AND VALUATION PROCEDURES, CAUSES OF ACCIDENTS, PROTECTIVE QUIPMENT REQUIRED, ESTABLISHING SAFETY RULES AND ROCEDURES, ELEMENTS OF EMPLOYEE TRAINING PROGRAMS AND UGGESTIONS FOR MOTIVATING EMPLOYEES.

VAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 ENNSYLVANIA AVE., NW, WASHINGTON, D.C. 20037 ($16.50)

IRIS ACCESSION NUMBER: EW000553

PUBLICATION DATE: 70

TITLE: MARGIN FOR SAFETY (XT-31).

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; EQUIPMENT; FIRE EXTINGUISHERS; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SAFETY; *SLIDES; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 18 MIN. TAPE, 45 SLIDES, AND SCRIPT; AVAILABLE ON LOAN FROM NTOTC, 26 W ST CLAIR, CINCINNATI, OH 45268

ABSTRACT: PROVIDING SAFE CONDITIONS FOR PERFORMANCE OF ROUTINE DUTIES IN WASTEWATER WORKS. INCLUDES DETAILED DISCUSSIONS OF THE IMPORTANCE OF GOOD HOUSEKEEPING, PREVENTING SLIPS OR FALLS, PERSONAL PROTECTIVE EQUIPMENT, AND DEALING WITH FIRE EXTINGUISHERS, MACHINERY WITH MOVING PARTS AND VEHICULAR TRAFFIC IN WORK AREAS. ALSO EMPHASIZES SAFETY ATTITUDES.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., NW, WASHINGTON, D.C. 20037 ($11.50)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000554

PUBLICATION DATE: 70

TITLE: SAFE WAY (XT-32).

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; EQUIPMENT; FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SAFETY; *SLIDES; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 14 MIN. TAPE, 39 SLIDES, AND SCRIPT; AVAILABLE ON LOAN FROM NTOTC, 26 W ST CLAIR, CINCINNATI, OH 45268

ABSTRACT: PERFORMING ROUTINE DUTIES IN WASTEWATER WORKS IN A SAFE WAY. DUTIES CONSIDERED INVOLVE MANHOLES, ELECTRICAL EQUIPMENT, SAMPLING, CONTAMINATED WATER, AIR TOOLS, STEEP STAIRWAYS, VEHICULAR TRAFFIC, EXCAVATIONS, BAR SCREENS, WIRE ROPES, FLAMMABLE MATERIALS AND CHEMICALS.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., NW, WASHINGTON, D.C. 20037 ($11.50)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000556

PUBLICATION DATE: JUN 73

TITLE: RESIDUAL CHLORINE AND CHLORINE DEMAND (XT-37).

PERSONAL AUTHOR: HALLBACH, P. F.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; *CHLORINE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 12 MINUTE TAPE, 56 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING WASTEWATER TREATMENT PLANT OPERATORS. IT PRESENTS THE BASIC PRINCIPLES OF CHLORINATION PRACTICES IN TREATMENT PLANTS, REACTIONS OF CHLORINE WITH WATER AND WASTEWATER, SANITARY SIGNIFICANCE OF CHLORINE RESIDUALS, AND ANALYLICAL PROCEDURES FOR THE DETERMINATION OF CHLORINE AND CHLORINE RESIDUALS IN TREATMENT PLANT EFFLUENTS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000557

PUBLICATION DATE: JUL 72

TITLE: LABORATORY PROCEDURES FOR THE CHEMICAL OXYGEN DEMAND TEST (XT-48).

PERSONAL AUTHOR: HALLBACH, P.; DONAHUE, A. E.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *OXYGEN; WASTEWATER TREATMENT; *CHEMICAL OXYGEN DEMAND

DESCRIPTIVE NOTE: INCLUDED IS A 22 MINUTE TAPE, 80 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING WASTE TREATMENT PLANT OPERATORS AND LABORATORY PERSONNEL IN CHEMISTRY. IT PRESENTS THE LABORATORY TECHNIQUE INVOLVED IN TEST PROCEDURES FOR ALL LEVELS OF COD. THE SEQUENCE OF TOPICS IS A METHOD SUMMARY, SAMPLE HANDLING AND PRESERVATION, INTERFERENCES, APPARATUS, PREPARATION OF REAGENTS, STEP-WISE PROCEDURE, EXAMPLE OF CALCULATIONS, AND TREATMENT OF MERCURY-CONTAINING TEST WASTES. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000558

PUBLICATION DATE: 62

TITLE: CRISIS ON THE KANAWHA.

DESCRIPTOR: AUDIOVISUAL AIDS; ENVIRONMENT; FILMS; *INDUSTRIAL WASTES; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POLLUTION; POST SECONDARY EDUCATION; RIVERS; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *MANAGEMENT

DESCRIPTIVE NOTE: 16MM, 22 MIN., COLOR

ABSTRACT: INDUSTRIAL WASTEWATER MANAGEMENT.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: ORSANCO.; STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000561

PUBLICATION DATE: 76

TITLE: STATEWIDE TRAINING PLAN FOR WATER AND WASTEWATER TREATMENT PLANT OPERATORS.

PERSONAL AUTHOR: JONES, S. E.; BAUMANN, E. R.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *POST SECONDARY EDUCATION; PLANNING; STATE PLANS; *TRAINING PROGRAMS; *WASTEWATER TREATMENT; *WATER RESOURCES; *WATER TREATMENT; NEEDS

DESCRIPTIVE NOTE: 240P. ERI PROJECT 1238; ISU-ERI-AMES-76255; EPA FUNDED GRANT T900497-01-1, OFFICE OF WATER PROGRAMS

ABSTRACT: DESCRIBES A PLAN TO DEVELOP AND COORDINATE A STATEWIDE EDUCATION AND TRAINING PLAN FOR OPERATORS OF WATER AND WASTEWATER TREATMENT FACILITIES. BASED ON SPECIFIC ORIENTED OBJECTIVES. ALL LEVELS OF TRAINING AND EDUCATION ARE DISCUSSED.

AVAILABILITY: ENGINEERING RESEARCH INSTITUTE, COLLEGE OF ENGINEERING, IOWA STATE UNIVERSITY, AMES, IA 50010 ($5.00)

IRIS ACCESSION NUMBER: EW000563

PUBLICATION DATE: 76

TITLE: HAVE YOU EVER WONDERED?

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION; *SLIDES; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 36 SLIDES, AUTO CASSETTE, AND SCRIPT; DEVELOPED BY THE LOS ANGELES SECTION OF THE CALIFORNIA WATER POLLUTION CONTROL ASSOC.

ABSTRACT: DESIGNED FOR USE OF CHILDREN AND ADULTS DESIRING AN INTRODUCTION TO POLLUTION CONTROL. WILL ASSIST THE PERSON IN GAINING BASIC KNOWLEDGE OF WATER POLLUTION CONTROL TECHNOLOGY AND ITS DIRECT EFFECT ON THEIR LIVES.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., NW, WASHINGTON, D.C. 20037 ($35.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW000573

PUBLICATION DATE: 77

TITLE: WATER RENOVATION AND REUSE.

PERSONAL AUTHOR: SHUVAL, H. I.

DESCRIPTOR: HYDROLOGY; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *MUNICIPAL WASTES; *POST SECONDARY EDUCATION; *RECYCLING; *WASTEWATER TREATMENT; WATER RESOURCES; *WATER REUSE; *WATER TREATMENT

DESCRIPTIVE NOTE: 488P. (ISBN 0-12-641250-2)

ABSTRACT: DEALS WITH ALL THE TECHNOLOGICAL AND SCIENTIFIC ASPECTS OF WATER RECYCLING. DISCUSSES THE ASPECTS OF WATER RENOVATION AND REUSE IN AGRICULTURE, INDUSTRY AND FOR MUNICIPAL USE, AS WELL AS EVALUATING THE HEALTH PROBLEMS ASSOCIATED WITH REUSE. INCLUDES CURRENT STATUS OF WORK IN THIS FIELD IN THE U S, ENGLAND, GERMANY, ISRAEL, SOUTH AFRICA, INDIA, AND JAPAN.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($82.50)

IRIS ACCESSION NUMBER: EW000574

PUBLICATION DATE: 74

TITLE: POLLUTION ECOLOGY OF FRESHWATER INVERTEBRATES.

PERSONAL AUTHOR: HART, C. W.; FULLER, S. L.

DESCRIPTOR: *BIOLOGY; *ECOLOGY; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *ZOOLOGY; AQUATIC ANIMALS; ENVIRONMENT

DESCRIPTIVE NOTE: 416P. (ISBN 0-12-328450-3)

ABSTRACT: INCLUDES: BASIC OUTLINES OF THE NORMAL ECOLOGY OF CERTAIN INVERTEBRATE GROUPS; DISCUSSIONS OF THE PRESENT STATUS OF KNOWLEDGE CONCERNING THE POLLUTION ECOLOGY OF THOSE GROUPS; THE MOST RECENT AND SYSTEMATIC INTERPRETATIONS; AND EXTENSIVE REFERENCE SECTIONS POINTING THE WAY TO ANCILLARY BACKGROUND MATERIAL.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE. NEW YORK, NY 10003 ($29.50).

IRIS ACCESSION NUMBER: EW000575

PUBLICATION DATE: 76

TITLE: ECOLOGICAL ASPECTS OF USED WATER TREATMENT, VOLUME 1: ORGANISMS AND THEIR ECOLOGY.

PERSONAL AUTHOR: CURDS, C. R.; HAWKES, H. A.

DESCRIPTOR: *AQUATIC ANIMALS; *BIOLOGY; *ECOLOGY ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY POLLUTION; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 424P. (ISBN 0-12-199501-1)

ABSTRACT: PRESENTS A SERIES OF ACCOUNTS CONCERNING TH GENERAL BIOLOGY AND ECOLOGY OF THE PLANT AND ANIMAL LIF INHABITING THE VARIOUS AEROBIC AND ANAEROBIC TREATMEN PROCESSES. LISTS OF ALL MAJOR SPECIES OF ORGANISMS AN REFERENCES TO THE TAXONOMIC LITERATURE ARE GIVEN. IN EAC CASE THE ROLE OF THE INDIVIDUAL GROUPS OF ORGANISMS I DISCUSSED IN DETAIL AND SUGGESTIONS FOR FURTHER RESEARCH AR MADE.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, N 10003 ($32.25)

IRIS ACCESSION NUMBER: EW000577

PUBLICATION DATE: 74

TITLE: AGRICULTURAL WASTE MANAGEMENT.

PERSONAL AUTHOR: LOEHR, R. C.

DESCRIPTOR: *AGRICULTURAL WASTES; *AGRICULTURE *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION *TERTIARY TREATMENT; *WASTE DISPOSAL; *WASTEWATER TREATMENT AEROBIC TREATMENT; ANAEROBIC TREATMENT; LAGOONS; PONDS

DESCRIPTIVE NOTE: 590P. (ISBN 0-12-455250-1)

ABSTRACT: PRESENTS INFORMATION FROM ALL FACETS O AGRICULTURAL PRODUCTION. INCLUDES INFORMATION ON CHANGIN PRACTICES IN AGRICULTURE, ENVIRONMENTAL IMPACT AND WAST CHARACTERISTICS. ALSO INCLUDES: BIOLOGICAL PROCESSES, POND AND LAGOONS, AEROBIC TREATMENT, ANAEROBIC TREATMENT NITROGEN CONTROL.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE. NEW YORK, N 10003 ($44.00).

IRIS ACCESSION NUMBER: EW000609

ERIC ACCESSION NUMBER: ED031565

PUBLICATION DATE: DEC 68

TITLE: WATER AND WASTEWATER TECHNOLOGY; A SUGGESTED 2-YEA POST HIGH SCHOOL CURRICULUM.

INSTITUTION CODE: FGK2146G

SPONSORING AGENCY CODE: BBB04319

DESCRIPTOR: BIBLIOGRAPHIES; COURSE DESCRIPTIONS CURRICULUM; CURRICULUM GUIDES; EDUCATIONAL EQUIPMENT EDUCATIONAL FACILITIES; *ENVIRONMENTAL TECHNICIANS; HEAL PERSONNEL; *POST SECONDARY EDUCATION; PROGRA ADMINISTRATION; PROGRAM COSTS; PROGRAM DEVELOPMENT; *PROGRA GUIDES; *TECHNICAL EDUCATION; *WATER RESOURCES; *WATER A WASTEWATER TECHNOLOGY; *WASTEWATER TREATMENT; *WATE TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS PLUS POSTAGE

DESCRIPTIVE NOTE: 141P.

ISSUE: RIEDEC69

ABSTRACT: THIS CURRICULUM GUIDE WITH ACCOMPANYING COURS OUTLINES WAS DEVELOPED BY TECHNICAL EDUCATION SPECIALIS FOR TEACHER USE IN CONDUCTING COURSES OF INSTRUCTION FOR T PREPARATION OF WATER AND WASTEWATER TECHNICIANS. THE CONTE OBJECTIVES ARE TO PROVIDE STUDENTS WITH A BACKGROUND KNOWLEDGE IN THE DIVERSE AREAS OF APPLIED SANITATION WHIC RELATE TO WATER AND WASTEWATER: A FOUNDATION IN MICROBIOLOG AND BASIC HYDRAULICS, SANITARY CHEMISTRY AND BIOLOGY, WAT SUPPLY AND WASTEWATER COLLECTION, WATER PURIFICATIO WASTEWATER TREATMENT, AND WATER POLLUTION CONTROL. TH MATERIAL IS TO BE USED OVER A 2-YEAR PERIOD OF SYSTEMATI INSTRUCTION AT THE POST SECONDARY LEVEL OF EDUCATIO TEACHERS OF SANITATION SUBJECTS MUST HAVE SPECI COMPETENCIES DERIVED FROM TRAINING IN TECHNICAL SUBJEC MATTER, PRACTICE, AND INSTRUCTIONAL EXPERIENCE. STUDENT SHOULD BE HIGH SCHOOL GRADUATES WITH REASONABLE MATURITY AN SERIOUSNESS OF PURPOSE AND WHOSE EDUCATIONAL BACKGROUN INCLUDE CHEMISTRY, PHYSICS, AND MATHEMATICS, INCLUDI ALGEBRA AND GEOMETRY. IN ADDITION TO A 265-ENTR BIBLIOGRAPHY OF TEXT AND REFERENCES, INFORMATION TECHNICAL EDUCATION PROCEDURE, FACILITIES, EQUIPMENT A COST, AND SCIENTIFIC AND TECHNICAL SOCIETIES IS INCLUDE (CH)

REPORT NUMBER: OE-80057

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMEN PRINTING OFFICE, WASHINGTON, D.C. 20402 (FS5.280.8005. $1.50)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON D.C.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW) WASHINGTON, D.C. DIV. OF VOCATIONAL AND TECHNICAL EDUCATION

IRIS ACCESSION NUMBER: EW000611

PUBLICATION DATE: 72

TITLE: MACHINIST'S MATE 3 AND 2.

DESCRIPTOR: *EQUIPMENT (SHOP); *INSTRUCTIONAL MATERIAL *MACHINISTS; MAINTENANCE; *MANUALS; *POST SECONDA EDUCATION

DESCRIPTIVE NOTE: NO. 0847-00152

ABSTRACT: BASIC PROCEDURES FOR SHOP MACHINISTS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($4.85)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW000618

PUBLICATION DATE: 75

TITLE: WATER MEASUREMENT MANUAL.

DESCRIPTOR: *FLOW MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *MEASUREMENT; *POST SECONDARY EDUCATION; *WATER ANALYSIS

DESCRIPTIVE NOTE: NO. 2403-0027

ABSTRACT: DETAILED MANUAL OF PROCEDURES FOR MEASUREMENT OF WATER FLOW.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($6.40)

INSTITUTION NAME: DEPT. OF THE INTERIOR, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW000631

ERIC ACCESSION NUMBER: ED055815

PUBLICATION DATE: 70

TITLE: RIVER OF LIFE. WATER: THE ENVIRONMENTAL CHALLENGE.

PERSONAL AUTHOR: PREUDHOMME, LEROY L.

INSTITUTION CODE: FGK21460

DESCRIPTOR: CONSERVATION EDUCATION; ECOLOGICAL FACTORS; ECOLOGY; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; POLLUTION; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 100P.; CONSERVATION YEARBOOK SERIES VOLUME NUMBER 6

ISSUE: RIEFEB72

ABSTRACT: THIS IS THE SIXTH IN A SERIES OF CONSERVATION YEARBOOKS PREPARED BY THE U.S. DEPARTMENT OF THE INTERIOR AS ENVIRONMENTAL REPORTS TO THE PUBLIC CONCERNING PROBLEMS OF WATER RESOURCES IN THE UNITED STATES. INFORMATION PRESENTED INCLUDES DESCRIPTIVE INFORMATION, STATISTICAL DATA, AND EXTENSIVE COLOR PHOTOGRAPHS. THE METHODS OF PRESENTING INFORMATION MAKE THE YEARBOOK SUITABLE FOR ALL AGE LEVELS. INCLUDED ARE SECTIONS ON THE STORY OF WATER; THE HYDROLOGIC CYCLE; WATER: THE ENVIRONMENTAL CHALLENGE; WATER RICH OR WATER POOR?; THE UNENDING STRUGGLE FOR QUALITY; FISH, WILDLIFE . . . AND PEOPLE; WATER AT WORK FOR MAN; AND SLANDERS AND INDIANS. (BB)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($2.00)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW000632

PUBLICATION DATE: 70

TITLE: WRITING WORDS THAT WORK: A GUIDE FOR EXTENSION WORKERS.

PERSONAL AUTHOR: COWING

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *REPORT WRITING; *TECHNICAL WRITING; *WRITING

DESCRIPTIVE NOTE: NO. 0100-1336

ABSTRACT: SUGGESTED LANGUAGE TO USE IN WRITING REPORTS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($0.90)

IRIS ACCESSION NUMBER: EW000690

TITLE: POLLUTION IN NEW ENGLAND - SERIES A.

DESCRIPTOR: ALGAE; FILTRATION; INSTRUCTIONAL MATERIALS; OIL SPILLS; *POLLUTION; POST SECONDARY EDUCATION; SEDIMENTATION; SLIDES; VISUAL AIDS; WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *WATER QUALITY; NEW ENGLAND

DESCRIPTIVE NOTE: ORDER SERIES A WITH ACCOMPANYING NARRATIVE; 100 SLIDES

ABSTRACT: PRESENTING THE PROBLEM OF POLLUTED WATERS WITHIN THE NEW ENGLAND AREA AND OFFERING ANSWERS AS TO HOW WE CAN EFFECT A FUTURE CLEANUP JOB. IT IS IDEAL FOR CLASSROOM AND GENERAL AUDIENCES.

AVAILABILITY: NEW ENGLAND REGIONAL WASTEWATER INST., 2 FORT ROAD, SOUTH PORTLAND, ME 04106 (FREE RENTAL)

INSTITUTION NAME: NEW ENGLAND REGIONAL WASTEWATER INST.

IRIS ACCESSION NUMBER: EW000691

TITLE: STREAM POLLUTION - SERIES B.

DESCRIPTOR: AQUATIC ANIMALS; AQUATIC PLANTS; INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; OIL SPILLS; *POLLUTION; POST SECONDARY EDUCATION; *SLIDES; VISUAL AIDS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: ORDER SERIES B WITH ACCOMPANYING NARRATIVE; 36 SLIDES

ABSTRACT: FOCUSING ON THE DIFFERENT WASTE MATERIALS DISCHARGED INTO OUR WATER, ACCENTING THE NEED TO END POLLUTION. WELL SUITED FOR CLASSROOM AND GENERAL USE.

AVAILABILITY: NEW ENGLAND REGIONAL WASTEWATER INST., 2 FORT ROAD, SOUTH PORTLAND, ME 04106 (FREE RENTAL)

INSTITUTION NAME: NEW ENGLAND REGIONAL WASTEWATER INST.

IRIS ACCESSION NUMBER: EW000692

TITLE: WASTEWATER TREATMENT - SERIES C.

DESCRIPTOR: CHEMICAL TREATMENT; DISINFECTION; FILTRATION; *INSTRUCTIONAL MATERIALS; *PRIMARY TREATMENT; POST SECONDARY EDUCATION; SEDIMENTATION; *SECONDARY TREATMENT; *SLIDES; SLUDGE DEWATERING; STABILIZATION LAGOONS; *TERTIARY TREATMENT; VISUAL AIDS; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ORDER SERIES C WITH ACCOMPANYING NARRATIVE; 100 SLIDES

ABSTRACT: FOCUSING ON THE TECHNICAL ASPECTS OF WASTEWATER TREATMENT. IT FEATURES PRIMARY AND SECONDARY FACILITIES AND INCLUDES SEGMENTS ON THE TRAINING OF PLANT OPERATORS AND ON SAFETY.

AVAILABILITY: NEW ENGLAND REGIONAL WASTEWATER INST., 2 FORT ROAD, SOUTH PORTLAND, ME 04106 (FREE RENTAL)

INSTITUTION NAME: NEW ENGLAND REGIONAL WASTEWATER INST.

IRIS ACCESSION NUMBER: EW000730

PUBLICATION DATE: NOV 63

TITLE: THE CHANGING RIVER.

DESCRIPTOR: AUDIOVISUAL AIDS; BIOLOGY; *ECOLOGY; ENVIRONMENT; *FILMS; *HYDROLOGY; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *METEOROLOGY; POST SECONDARY EDUCATION; *RIVERS; WATER RESOURCES

DESCRIPTIVE NOTE: 16MM, 16 MIN., COLOR

ABSTRACT: DEALS WITH THE ECOLOGY OF A RIVER SYSTEM FROM ITS BEGINNINGS IN RAIN AND RUNOFF TO ITS END AS A HUGE, POWERFUL VOLUME OF WATER FLOWING INTO THE OCEAN. EMPHASIZES THE BIOLOGICAL RELATIONSHIPS BETWEEN LIVING ORGANISMS AND THEIR ENVIRONMENT.

AVAILABILITY: INTERNATIONAL FILM BUREAU, INC., 332 SOUTH MICHIGAN AVE., CHICAGO, IL 60604 ($17.50 RENTAL; $240.00 PURCHASE)

INSTITUTION NAME: INTERNATIONAL FILM BUREAU, INC.

IRIS ACCESSION NUMBER: EW000736

PUBLICATION DATE: 63

TITLE: COAL AND WATER.

DESCRIPTOR: *ACID MINE DRAINAGE; AUDIOVISUAL AIDS; *COAL INDUSTRY; ENVIRONMENT; *FILMS; INDUSTRIAL WASTES; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; MINING; *POLLUTION; POST SECONDARY EDUCATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 16 MM, 23 MIN., COLOR

ABSTRACT: COAL INDUSTRY POLLUTION AND METHODS OF PREVENTING ACID DRAINAGE AND BLACK WATER.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: ORSANCO.; STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000737

PUBLICATION DATE: JUL 63

TITLE: CONSERVATION AND BALANCE IN NATURE.

DESCRIPTOR: AUDIOVISUAL AIDS; *CONSERVATION; *ECOLOGY; *ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 16MM, 18 MIN., COLOR

ABSTRACT: INVESTIGATES THE BALANCE IN NATURAL ECOLOGICAL SYSTEMS AS RELATED TO WHAT MAN IS DOING TO HIS ENVIRONMENT.

AVAILABILITY: INTERNATIONAL FILM BUREAU, INC., 332 SOUTH MICHIGAN AVE., CHICAGO, IL 60604 ($19.75 RENTAL; $265.00 PURCHASE)

INSTITUTION NAME: INTERNATIONAL FILM BUREAU, INC.

IRIS ACCESSION NUMBER: EW000742

PUBLICATION DATE: 68

TITLE: ELEMENT THREE.

DESCRIPTOR: *CONSERVATION; *ECOLOGY; *FILMS; *WATER QUALITY; *WATER RESOURCES; AUDIOVISUAL AIDS; HYDROLOGY; INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 16MM, 46 MIN. COLOR

ABSTRACT: CONTRASTING THE LYRICAL BEAUTY OF PURE WATER AND THE DEADLY ARIDITY OF ITS ABSENCE, STRESSES THAT COOPERATION ON LOCAL, NATIONAL, AND INTERNATIONAL LEVELS IS ESSENTIAL FOR A SENSIBLE CONTROL AND DISTRIBUTION OF FRESH WATER RESOURCE.

AVAILABILITY: INTERNATIONAL FILM BUREAU, INC. 332 SOUTH MICHIGAN AVE. CHICAGO, IL 60604 ($45.00 RENTAL; $575.00 PURCHASE)

INSTITUTION NAME: INTERNATIONAL FILM BUREAU, INC.

IRIS ACCESSION NUMBER: EW000750

PUBLICATION DATE: 76

TITLE: LIME: THE VERSATILE CHEMICAL.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL INDUSTRY; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LIME; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16MM, 29 MIN., COLOR, SOUND

ABSTRACT: PRESENTATION OF THE HYDROLOGIC CYCLE AND THE UNDERGROUND WATER TABLES IT CREATES. BY SHOWING THE NATURAL CYCLE, THE FILM PRESENTS A CLEAR PICTURE OF WHAT CONSTITUTES WATER SUPPLY AND HOW THIS MAY BE TAPPED -- NATURALLY (ARTESIAN WELLS, SPRINGS, GEISERS) OR ARTIFICIALLY (WELLS, MAN-MADE RESERVOIRS) -- INCLUDING THE THREAT OF SALT WATER PENETRATION TO COASTAL RESERVOIRS IF NATURAL WATER SUPPLIES ARE OVERTAXED.

AVAILABILITY: NATIONAL LIME ASSOCIATION, 5010 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($200.00)

INSTITUTION NAME: NATIONAL LIME ASSOC.

IRIS ACCESSION NUMBER: EW000771

PUBLICATION DATE: JUN 73

TITLE: DETERMINATION OF TOTAL ORGANIC CARBON (XT-59).

PERSONAL AUTHOR: FELDMANN, C. R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *ORGANIC CHEMISTRY; *POST SECONDARY EDUCATION; SLIDES; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *ORGANIC CARBON

DESCRIPTIVE NOTE: INCLUDED IS A 12 MINUTE TAPE, 59 SLIDES, AND SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATORY PERSONNEL AND WASTEWATER TREATMENT PLANT OPERATORS. EMPHASIZED IS THE USE OF A CARBONACEOUS ANALYZER TO DETERMINE ORGANIC MATERIALS IN WATER. INCLUDED ARE BOD, COD, AND TOC TESTS, STEPS OF TOC DETERMINATION, FUNCTIONS OF INSTRUMENT COMPONENTS, INJECTION SYRINGE CHARACTERISTICS, SAMPLING AND PRESERVATION, SAMPLE PRETREATMENT, AND DISCUSSIONS OF ANALYZERS AND CALCULATIONS USING DATA FROM EACH. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000780

TITLE: POLLUTION SOLUTION: UNDERGROUND DISPOSAL WELLS.

DESCRIPTOR: AUDIOVISUAL AIDS; ENVIRONMENT; *FILMS; GROUNDWATER; *HAZARDOUS POLLUTANTS; INSTRUCTIONAL FILMS; POLLUTION; POST SECONDARY EDUCATION; *UNDERGROUND DISPOSAL; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER WELLS

DESCRIPTIVE NOTE: 16MM FILM, 13 MIN., COLOR; ALSO 8MM CARTRIDGED FOR FAIRCHILD PROJECTOR

ABSTRACT: DESCRIBES BENEFITS OF UTILIZING UNDERGROUND, GEOLOGICAL FORMATIONS FOR THE DISPOSAL OF CHEMICAL WASTES. DESCRIBES HOW A WASTEWATER DISPOSAL WELL IS CASED AND CEMENTED FROM THE SURFACE TO THE DISPOSAL FORMATION MANY HUNDREDS OF FEET INTO THE EARTH.

AVAILABILITY: FIBERCAST CO., P.O. BOX 968, SAND SPRINGS, OK 74063 (FREE RENTAL)

INSTITUTION NAME: FIBERCAST CO.

IRIS ACCESSION NUMBER: EW000784

PUBLICATION DATE: 62

TITLE: RIVER WATCHERS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; INDUSTRIAL WASTES; INSTRUCTIONAL FILMS; *INSTRUMENTATION; *MONITORING; POLLUTION; POST SECONDARY EDUCATION; * RIVERS; WATER ANALYSIS; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 20 MIN., COLOR

ABSTRACT: ORSANCO'S ROBOT MONITOR SYSTEM AND STREAM SURVEILLANCE.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: ORSANCO.; STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000786

PUBLICATION DATE: 75

TITLE: CLEAR VIEW GUIDE TO INDUSTRIAL POLLUTION CONTROL.

PERSONAL AUTHOR: CANNON, J.

DESCRIPTOR: COST EFFECTIVENESS; *DATA; ECONOMICS; *ENVIRONMENTAL CRITERIA; ENVIRONMENTAL EDUCATION; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; MANUALS; *POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; STATISTICAL ANALYSIS; *URBAN PROBLEMS

ABSTRACT: HOW TO LOCATE AND USE MAJOR U.S. SOURCES OF CORPORATE, GOVERNMENTAL AND PUBLIC DATA ON FACTORY ENVIRONMENTAL IMPACT, EVALUATE A FACTORY'S POLLUTION CONTROL RECORD, AND DETERMINE AVAILABLE MEANS OF REDUCING FACTORY ENVIRONMENTAL POLLUTION AND COSTS OF ALTERNATIVES.

AVAILABILITY: INFORM, 25 BROAD STREET, NEW YORK, NY 10004 ($7.50-HARD COVER; $4.50-SOFT COVER)

IRIS ACCESSION NUMBER: EW000794

PUBLICATION DATE: JUN 62

TITLE: THE STREAM.

DESCRIPTOR: AUDIOVISUAL AIDS; ECOLOGY; *ENVIRONMENT; *FILMS; *HYDROLOGY; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; METEOROLOGY; POST SECONDARY EDUCATION; *STREAMS; *WATER RESOURCES

DESCRIPTIVE NOTE: 16MM, 15 MIN., COLOR

ABSTRACT: THE TWO BASIC TYPES OF STREAM ENVIRONMENTS ARE EXAMINED THROUGH SEASONAL CHANGES.

AVAILABILITY: INTERNATIONAL FILM BUREAU, INC., 332 SOUTH MICHIGAN AVE., CHICAGO, IL 60604 ($15.00 RENTAL; $225.00 PURCHASE)

INSTITUTION NAME: INTERNATIONAL FILM BUREAU, INC.

IRIS ACCESSION NUMBER: EW000800

PUBLICATION DATE: 62

TITLE: CONSTRUCTION OF TRICKLING FILTERS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSTRUCTION; *FACILITIES; *FILMS; INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *TRICKLING FILTERS; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 16MM, 16 MIN., COLOR

ABSTRACT: FILM SHOWS THE CRUSHED STONE RE-SCREENING OPERATION FOR REMOVAL OF SPALLS AT ONE TYPICAL JOB SITE AND SHOWS THE PLACING OF THE STONE ON THE TILE BED. FOR THIS PROJECT, VERY LITTLE HAND LABOR WAS REQUIRED FOR SATISFACTORY CONSTRUCTION.

AVAILABILITY: NATIONAL CRUSHED STONE ASSOCIATION, 1415 ELLIOT PLACE, NW, WASHINGTON, D.C. 20007 ($15.00 RENTAL)

INSTITUTION NAME: NATIONAL CRUSHED STONE ASSOC.

IRIS ACCESSION NUMBER: EW000801

PUBLICATION DATE: 66

TITLE: TROUBLED WATERS.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POLLUTION; POST SECONDARY EDUCATION; *RIVERS; *WATER POLLUTION CONTROL; *WATER QUALITY; *OHIO RIVER

DESCRIPTIVE NOTE: 16MM, 28 MIN., COLOR; NARRATED BY HENRY FONDA; TITLE NO. U.5802

ABSTRACT: FOLLOWS THE PATH OF THE OHIO RIVER IN ORDER TO DOCUMENT THE SYMPTOMS AND SOLUTIONS TO THE NATIONAL PROBLEM OF WATER POLLUTION.

AVAILABILITY: NATIONAL AUDIO VISUAL CENTER, GENERAL SERVICES ADMINISTRATION, SALES BRANCH, WASHINGTON, D.C. 20409 ($12.50 RENTAL; $162.50 PURCHASE)

IRIS ACCESSION NUMBER: EW000804

TITLE: THE WATER BELOW.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *GROUNDWATER; *HYDROLOGY; INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 16MM, 30 MIN., BLACK & WHITE

ABSTRACT: WHAT IS GROUNDWATER AND HOW DO WE GET IT.

AVAILABILITY: MODERN TALKING PICTURE SERVICE, INC., 2323 NEW HYDE PARK ROAD, NEW HYDE PARK, NY 11040 (RENT FREE)

INSTITUTION NAME: MODERN TALKING PICTURE SERVICE, INC.

IRIS ACCESSION NUMBER: EW000812

PUBLICATION DATE: 69

TITLE: SO YOU'D LIKE TO DO SOMETHING ABOUT WATER POLLUTION.

DESCRIPTOR: *CITIZEN ROLE; *ENVIRONMENT; *POLLUTION; *PUBLIC PARTICIPATION; *WATER POLLUTION CONTROL; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; WATER QUALITY

DESCRIPTIVE NOTE: PUB. NO. 155

ABSTRACT: THE 'CITIZEN'S ROLE IN REDUCING WATER POLLUTION--AS AN INDIVIDUAL AND A GROUP MEMBER. THE STEPS TO BE TAKEN INCLUDE INVESTIGATING THE SITUATION (THROUGH READING, INTERVIEWS, ETC.), DEFINING THE PROBLEMS, STUDYING ALTERNATIVE SOLUTIONS, AND WORKING FOR PUBLIC SUPPORT FOR THE ACTION PLAN SELECTED. INCLUDES LIST OF CONTACT GROUPS.

AVAILABILITY: LEAGUE OF WOMEN VOTERS OF THE U.S. PUBLICATIONS STATES DEPT. 1730 M ST. NW, WASHINGTON, D.C. 20036 ($1.00 FOR 20 COPIES)

INSTITUTION NAME: LEAGUE OF WOMEN VOTERS OF THE U.S.

IRIS ACCESSION NUMBER: EW000822

PUBLICATION DATE: 73

TITLE: GROUND WATER - AMERICA'S PRICELESS RESOURCE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *GROUNDWATER; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *WATER RESOURCES; *WATER WELLS

DESCRIPTIVE NOTE: 16MM, COLOR, SOUND

AVAILABILITY: GROUND WATER COUNCIL, 221 NORTH LASALLE STREET, CHICAGO, IL 60601 ($50.00)

INSTITUTION NAME: GROUND WATER COUNCIL.

IRIS ACCESSION NUMBER: EW000829

PUBLICATION DATE: 72

TITLE: RECOMMENDED STANDARDS FOR WATER WORKS: TEN STATE STANDARDS.

DESCRIPTOR: *ADMINISTRATIVE AGENCIES; COAGULATION; *FACILITIES; FILTRATION; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; REGULATIONS; SEDIMENTATION; *STANDARDS; *STATE REGULATIONS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 103P.

ABSTRACT: SETS FORTH POLICIES FOR THE REVIEW AND APPROVAL OF PLANS AND SPECIFICATIONS FOR PUBLIC WATER SUPPLIES. THESE ARE REPORTS OF THE COMMITTEES OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($1.50)

INSTITUTION NAME: NEW YORK HEALTH EDUCATION SERVICE.

IRIS ACCESSION NUMBER: EW000830

TITLE: RECOMMENDED STANDARDS FOR SEWAGE WORKS: TEN STATE STANDARDS.

DESCRIPTOR: DISINFECTION; LAGOONS; PRIMARY TREATMENT; *REGULATIONS; SECONDARY TREATMENT; SEDIMENTATION; *SEWAGE; SLUDGE; *STANDARDS; *STATE REGULATIONS; TRICKLING FILTERS; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT; WATER QUALITY

DESCRIPTIVE NOTE: 160P.

ABSTRACT: SETS FORTH POLICIES FOR THE REVIEW AND APPROVAL OF PLANS AND SPECIFICATIONS FOR SEWAGE COLLECTION AND TREATMENT. THESE ARE REPORTS OF THE COMMITTEES OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($1.75)

INSTITUTION NAME: NEW YORK HEALTH EDUCATION SERVICE.

IRIS ACCESSION NUMBER: EW000831

TITLE: MUNICIPAL SEWERAGE SERVICE CONTRACTS.

DESCRIPTOR: *ADMINISTRATIVE GUIDES; *CONTRACTS; INSTRUCTIONAL MATERIALS; *MUNICIPAL WASTES; POST SECONDARY EDUCATION; SEWERS; *UTILITIES; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 36P.

ABSTRACT: THIS IS A CHECKLIST DESIGNED TO AID IN THE DEVELOPMENT AND DRAFTING OF MUNICIPAL SEWERAGE SERVICE CONTRACTS. ITS INTENT IS TO SUGGEST CONSIDERATIONS THAT SHOULD BE LOOKED INTO AND LOCALLY RESOLVED. IT NEITHER GIVES NOR PURPORTS TO GIVE SPECIFIC GUIDANCE FOR SOLVING AND PARTICULAR CONTRACTUAL PROBLEM.

AVAILABILITY: NEW YORK HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($1.25)

INSTITUTION NAME: NEW YORK HEALTH EDUCATION SERVICE.

IRIS ACCESSION NUMBER: EW000832

TITLE: INDUSTRIAL WASTEWATER DISCHARGES: A PURE WATERS GUIDELINE.

DESCRIPTOR: *ADMINISTRATIVE GUIDES; *ANALYTICAL TECHNIQUES; EFFLUENTS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; POLLUTION; POST SECONDARY EDUCATION; *WATER ANALYSIS; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 56P.

ABSTRACT: THIS GUIDE PROVIDES THE BASIS FOR ESTABLISHING A PRACTICABLE TESTING AND ANALYSIS PROGRAM ON ANY DISCHARGE FROM A KNOWN INDUSTRY. IT IS DESIGNED FOR USE BY HEALTH DEPARTMENT FIELD ENGINEERS, AND INDUSTRIAL EXECUTIVES, PLANT SUPERINTENDENTS, ENGINEERS AND CHEMISTS.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($1.25)

INSTITUTION NAME: NEW YORK HEALTH EDUCATION SERVICE.

IRIS ACCESSION NUMBER: EW000833

TITLE: LABORATORY PROCEDURES FOR WASTEWATER TREATMENT PLANT OPERATORS.

PERSONAL AUTHOR: GILCREAS, F. W.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY TECHNIQUES; *OPERATIONS; *WASTEWATER TREATMENT; *WATER ANALYSIS; *SEWAGE; CHEMICAL ANALYSIS; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; WATER QUALITY

DESCRIPTIVE NOTE: 142P

ABSTRACT: LABORATORY TECHNIQUES ADAPTED TO GOVERNING OPERATIONAL ACTIVITIES. THE MANUAL IS INTENDED PRIMARILY FOR USE IN COURSES FOR WASTEWATER TREATMENT PLANT OPERATORS, BUT SHOULD BE A HELPFUL REFERENCE FOR ALL THOSE INVOLVED IN THE ANALYSIS OF SEWAGE SAMPLES.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($1.50)

INSTITUTION NAME: NEW YORK DEPT. OF HEALTH.

IRIS ACCESSION NUMBER: EW000834

TITLE: DESIGN OF SMALL WATER SYSTEMS.

PERSONAL AUTHOR: SALVATO, J. A.

DESCRIPTOR: *DESIGN; *FACILITIES; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *WATER TREATMENT; *RURAL AREAS

DESCRIPTIVE NOTE: 28P.

ABSTRACT: FOR WATER PLANTS CAPABLE OF SUPPLYING 15,000 TO 200,000 GPD.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($1.25)

IRIS ACCESSION NUMBER: EW000835

PUBLICATION DATE: 73

TITLE: FUNDAMENTALS OF WATER SUPPLY OPERATION.

DESCRIPTOR: COURSE CONTENT; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *POST SECONDARY EDUCATION; *UTILITIES; *WATER CHARACTERISTICS; *WATER QUALITY; WATER SUPPLY; *WATER TREATMENT

ABSTRACT: PROGRAMMED INSTRUCTION WITH BASICS OF WATER TREATMENT PLANT OPERATIONS.

AVAILABILITY: MANAGER, OPERATOR CERTIFICATION, DIVISION OF PUBLIC WATER SUPPLIES, ENVIRONMENTAL PROTECTION AGENCY, 2200 CHURCHILL ROAD, SPRINGFIELD, IL 62706 ($3.00 IN ILLINOIS; $10.00 OUT OF STATE)

IRIS ACCESSION NUMBER: EW000836

PUBLICATION DATE: 75

TITLE: WATER CLARIFICATION QUESTIONS AND ANSWERS.

DESCRIPTOR: CHEMICAL REACTIONS; *COAGULATION; *FLOCCULATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; PUBLIC HEALTH; TECHNOLOGY; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: BULLETIN 40

ABSTRACT: DISCUSSION OF THEORY OF COAGULATION AND FLOCCULATION.

AVAILABILITY: NALCO CHEMICAL COMPANY, 180 NORTH MICHIGAN AVENUE, CHICAGO, IL 60601 (FREE)

INSTITUTION NAME: NALCO CHEMICAL CO.

IRIS ACCESSION NUMBER: EW000837

PUBLICATION DATE: 72

TITLE: HANDBOOK OF CHLORINATION.

PERSONAL AUTHOR: WHITE, G. C.

DESCRIPTOR: *CHLORINATION; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER QUALITY; CHEMISTRY; INDUSTRIAL TECHNOLOGY

DESCRIPTIVE NOTE: 752P. 173 ILLUSTRATIONS

ABSTRACT: DESCRIBES IN DETAIL THE MODERN TECHNOLOGY OF APPLYING VARIOUS FORMS OF CHLORINE IN TREATING POTABLE WATER SUPPLIES, WASTEWATER, SWIMMING POOLS, COOLING WATER, AND INDUSTRIAL PROCESS WATER. YOU ARE PROVIDED WITH THE CHEMISTRY OF EACH OF THESE APPLICATIONS, ALONG WITH PRACTICAL METHODS FOR CHLORINE RESIDUAL MEASUREMENT. COVERS

DIVERSE AREAS OF THE TECHNOLOGY, INCLUDING VARIOUS APPLICATIONS OF CHLORINE; DESIGN OF AN EFFICIENT CHLORINATION FACILITY FOR EACH APPLICATION; MAINTENANCE & OPERATION OF THESE FACILITIES; COMPARISONS OF CHLORINE WITH OTHER CHEMICALS USED FOR SIMILAR PURPOSES.

AVAILABILITY: VAN NOSTRAND REINHOLD CO. 450 WEST 33RD STREET, NEW YORK, NY 10001 ($39.50).

IRIS ACCESSION NUMBER: EW000840

PUBLICATION DATE: 70

TITLE: APPLIED STREAM SANITATION.

PERSONAL AUTHOR: VELZ, C. J.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SANITATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY; NATURAL RESOURCES; POLLUTION; RECYCLING; RESEARCH; STREAMS

DESCRIPTIVE NOTE: 619P. ORDER NO. O 471 90525-9

ABSTRACT: APPLIES THE FUNDAMENTALS OF STREAM SANITATION TO THE COMPLEX PROBLEMS OF WASTE DISPOSAL AND WATER QUALITY CONTROL. EXTENDS THE APPROACH BEYOND THE TREATMENT OF WASTE WATERS TO A MORE SOPHISTICATED SYSTEM OF MUTLIPLE LINES OF ACTION, BOTH DEFENSIVE (DIRECTED AGAINST ALL SOURCES OF MAN-MADE WASTE) AND OFFENSIVE (ORIENTED TOWARD FULLER UTILIZATION OF THE TOTAL WATER RESOURCES AVAILABLE).

AVAILABILITY: JOHN WILEY & SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($41.50).

IRIS ACCESSION NUMBER: EW000841

PUBLICATION DATE: 70

TITLE: AQUATIC CHEMISTRY - AN INTRODUCTION EMPHASIZING CHEMICAL EQUILIBRIUM IN NATURAL WATERS.

PERSONAL AUTHOR: STUMM, W.; MORGAN, J. J.

DESCRIPTOR: *CHEMICAL REACTIONS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER QUALITY; *AQUATIC ENVIRONMENTS; CHEMISTRY; ENGINEERING; LIMNOLOGY; NATURAL RESOURCES; OCEANOLOGY; POLLUTION; SOILS

DESCRIPTIVE NOTE: 583P

ABSTRACT: FOR STUDENTS AND PROFESSORS OF WATER CHEMISTRY, OCEANOGRAPHY AND SANITATION; WATER POLLUTION CONTROL ENGINEERING; SANITARY ENGINEERS; ENVIRONMENTAL ENGINEERS. A THEORETICAL BASIS FOR THE CHEMICAL BEHAVIOR OF OCEAN WATERS, RIVERS, LAKES, GROUND WATERS AND SOIL-WATER SYSTEMS. SIMPLIFIED MODELS ILLUSTRATE THE PRINCIPLE REGULATORY FACTORS THAT CONTROLS THE CHEMICAL COMPOSITION OF NATURAL WATERS. SETS GUIDELINES FOR THE MODIFICATION AND MANIPULATION OF THE AQUATIC ENVIRONMENT TO IMPROVE ITS QUALITY.

AVAILABILITY: JOHN WILEY & SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($18.00).

IRIS ACCESSION NUMBER: EW000842

PUBLICATION DATE: 71

TITLE: AS WE LIVE AND BREATHE: THE CHALLENGE OF OUR ENVIRONMENT.

DESCRIPTOR: AUDIOVISUAL AIDS; ECOLOGY; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION

ABSTRACT: THIS IS AN ACCOUNT OF THE IMPACT OF MAN ON THE EARTH AND HIS EFFORTS TO RESTORE AND PRESERVE NATURE'S BALANCE.

AVAILABILITY: NATIONAL GEOGRAPHIC SOCIETY, 17 AND M STREETS, NW, WASHINGTON, D.C. 20036 ($5.75)

INSTITUTION NAME: NATIONAL GEOGRAPHIC SOCIETY.

IRIS ACCESSION NUMBER: EW000844

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL LITERATURE.

PERSONAL AUTHOR: BENNETT, G. F.; BENNETT, J. C.

DESCRIPTOR: *BIBLIOGRAPHIES; *ENVIRONMENT; *HYDROLOGY; *POLLUTION; *WASTEWATER TREATMENT; ABSTRACTS; ANNOTATED BIBLIOGRAPHIES; INSTRUCTIONAL MATERIALS; MICROBIOLOGY; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 134P

ABSTRACT: DEALS WITH ALL ASPECTS OF POLLUTION AND POLLTUION CONTROL, IT BEING A BIBLIOGRAPHY OF BOOKS, PAMPHLETS, JOURNALS (BUT NOT OF JOURNAL ARTICLES), AND OF SOME AUDIO-VISUAL AIDS IN A FIELD THAT IS NOW EUPHEMISTICALLY NAMED "ENVIRONMENTAL". INCLUDES ABSTRACTS OF MEETINGS AND SYMPOSIUM PROCEEDINGS.

AVAILABILITY: NOYES DATA CORP. NOYES BUILDING, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656 ($18.00).

IRIS ACCESSION NUMBER: EW000846

PUBLICATION DATE: 71

TITLE: THE BIOLOGICAL ASPECTS OF WATER POLLUTION.

PERSONAL AUTHOR: WILBER, CHARLES G.

DESCRIPTOR: *BIOLOGICAL INFLUENCES; *ENVIRONMENTAL EDUCATION; MEASUREMENT TECHNIQUES; METALS; PESTICIDES; *POLLUTION; PUBLIC HEALTH; SANITATION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 296P.

ABSTRACT: THIS BOOK PRESENTS INFORMATION RELATIVE TO THE BIOLOGY OF WATER POLLUTION ESPECIALLY AS IT RELATES TO THE AREAS OF TOXICOLOGY, PHYSIOLOGY, CHEMISTRY, AND STATISTICS. ALTHOUGH NOT EXHAUSTIVE IN ITS COVERAGE, PROBLEMS SUCH AS OIL POLLUTION, PESTICIDES, INDUSTRIAL POLLUTION, RADIONUCLIDES AND SILTATION ARE DISCUSSED. THE AUTHOR ADDRESSES BOTH TOXICOLOGICAL AND ECOLOGICAL CONSIDERATIONS WITHIN THE TEXT AND ALSO LOOKS AT METHODS OF STUDY AND UNIQUE AND UNSOLVED PROBLEMS. (CS)

AVAILABILITY: CHARLES C. THOMAS PUB., 301-327 E. LAWRENCE AVENUE, SPRINGFIELD, ILLINOIS 62703 ($23.75)

IRIS ACCESSION NUMBER: EW000848

ERIC ACCESSION NUMBER: ED070670

PUBLICATION DATE: 71

TITLE: BIOLOGY AND WATER POLLUTION CONTROL.

PERSONAL AUTHOR: WARREN, CHARLES E.

DESCRIPTOR: *BIOLOGY; *ECOLOGY; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; HIGHER EDUCATION; POLLUTION; SECONDARY EDUCATION; *TEXTBOOKS; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 434P.

ISSUE: RIEAPR73

ABSTRACT: WITHIN THIS TEXT, THE READER IS ATTUNED TO THE ROLE BIOLOGY CAN AND SHOULD PLAY IN COMBATING THE ALARMING INCREASE IN WATER POLLUTION. BOTH THE URGENCY OF THE PROBLEM AND THE BIOLOGICAL TECHNIQUES THAT ARE BEING DEVELOPED TO COPE WITH THE WATER POLLUTION CRISIS ARE SCRUTINIZED; WHAT IS AND IS NOT KNOWN ABOUT THE PROBLEM IS EXPLAINED; PAST, PRESENT, AND PROPOSED CONTROL METHODS ARE ANALYZED; AND PROMISING NEW APPROACHES TO THE EFFECTIVE BIOLOGICAL CONSERVATION OF OUR DIMINISHING CLEAN WATER RESOURCES ARE SUGGESTED. INITIAL CHAPTERS DEAL WITH THE HISTORICAL, SOCIAL, TECHNOLOGICAL, AND LEGAL BACKGROUND OF THE POLLUTION PROBLEM AS WELL AS BIOLOGICAL APPROACHES USED IN WATER POLLUTION CONTROL. PHYSICAL AND CHEMICAL PROPERTIES OF WATER ARE DESCRIBED AND THE VARIOUS TYPES OF WATER POLLUTION AND THEIR EFFECTS ON THE AQUATIC ENVIRONMENT ARE CATEGORIZED. THE CORE OF THE BOOK CONSISTS OF FOUR SECTIONS THAT EXAMINE IN DETAIL THE MORPHOLOGY AND PHYSIOLOGY OF AQUATIC ORGANISMS, ECOLOGY OF THE INDIVIDUAL ORGANISM, ECOLOGY OF THE INDIVIDUAL ORGANISM, POPULATION ECOLOGY, AND COMMUNITY ECOLOGY. IN CONCLUDING CHAPTERS, IT IS SHOWN HOW THE FIELD OF BIOLOGY MAY BE APPLIED TO THE SOLUTION OF EXISTING WATER POLLUTION PROBLEMS. A BIBLIOGRAPHY IS INCLUDED. (BL)

AVAILABILITY: W. B. SAUNDERS COMPANY, WEST WASHINGTON SQUARE, PHILADELPHIA, PA. 19105

IRIS ACCESSION NUMBER: EW000851

PUBLICATION DATE: 68

TITLE: CHLORINE FACTS (FACT).

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; DISEASE CONTROL; *ENVIRONMENTAL INFLUENCES; INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; *SAFETY; WATER QUALITY; WATER TREATMENT

DESCRIPTIVE NOTE: 24P.

ABSTRACT: PRESENTS A QUICK SUMMARY OF CHLORINE'S HISTORY, MANUFACTURING PROCESSES, LOCATIONS OF PRODUCTION AND PACKAGING PLANTS, SHIPPING AND SAFETY PRACTICES, U.S. AND CANADIAN PRODUCTION TRENDS, A CHART OF END USES FOR CHLORINE AND A BIBLIOGRAPHY.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.50)

INSTITUTION NAME: THE CHLORINE INSTITUTE.

IRIS ACCESSION NUMBER: EW000852

PUBLICATION DATE: AUG 72

TITLE: THE DETERMINATION OF BIOCHEMICAL OXYGEN DEMAND (XT-54).

PERSONAL AUTHOR: FELDMANN, C. R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *POST SECONDARY EDUCATION; SLIDES; WATER POLLUTION CONTROL; *BIOCHEMICAL OXYGEN DEMAND; *OPERATIONS (WASTEWATER)

DESCRIPTIVE NOTE: INCLUDED IS A 13 MINUTE TAPE, 71 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATORY PERSONNEL AND WASTEWATER TREATMENT PLANT OPERATORS. THE MODULE PROVIDES AN INTRODUCTION TO THE BOD (BIOCHEMICAL OXYGEN DEMAND) TEST. TOPICS INCLUDE REASONS FOR MAKING THE DETERMINATION, THE PREPARATION OF DILUTION WATER, SEEDING TECHNIQUES, SAMPLE PRETREATMENT AND DILUTION, AND CALCULATIONS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000854

PUBLICATION DATE: 75

TITLE: COMPLETE HANDBOOK ON ENVIRONMENTAL CONTROL.

PERSONAL AUTHOR: MCCLAIN, T. B.; ZAREFSKY, D.

DESCRIPTOR: AIR POLLUTION CONTROL; *ENVIRONMENTAL CONTROL; EQUIPMENT; *INSTRUCTIONAL MATERIALS; MANUALS; *POLLUTION; POST SECONDARY EDUCATION; *RESEARCH; *TECHNOLOGY; WATER POLLUTION CONTROL

ABSTRACT: REVIEW OF ENVIRONMENTAL CONTROL PROCEDURES.

AVAILABILITY: NATIONAL TEXTBOOK COMPANY, 9259 NILES CENTER ROAD, SKOKIE, IL 60076 ($3.00)

IRIS ACCESSION NUMBER: EW000855

PUBLICATION DATE: JUN 71

TITLE: CONTROLLING THE EFFECTS OF INDUSTRIAL WASTES ON SEWAGE TREATMENT.

PERSONAL AUTHOR: MASSELLI, J. W.

DESCRIPTOR: ACTIVATED SLUDGE; BIOCHEMICAL OXYGEN DEMAND; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *MUNICIPAL WASTES; *PRIMARY TREATMENT; POST SECONDARY EDUCATION; SECONDARY TREATMENT; SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO. TR-15.

ABSTRACT: AS WATER POLLUTION ABATEMENT ACTIVITIES INTENSIFY, MANY INDUSTRIES ARE ASKING THAT THEIR WASTE BE ACCEPTED IN MUNICIPAL SYSTEMS. THIS REPORT IS PUBLISHED TO DEAL WITH THE PROBLEMS RELATED TO WASTES OF VARYING CHARACTERISTICS AND TO JOINT TREATMENT OF MUNICIPAL-INDUSTRIAL WASTE.

AVAILABILITY: NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, 607 BOYLSTON STREET, BOSTON, MA 02116 (FREE)

IRIS ACCESSION NUMBER: EW000857

PUBLICATION DATE: 71

TITLE: ELEMENTS OF WATER SUPPLY AND WASTEWATER DISPOSAL, 2ND ED.

PERSONAL AUTHOR: FAIR, G. M.; AND OTHERS

DESCRIPTOR: BIOCHEMISTRY; CHEMICAL REACTIONS; *ENVIRONMENTAL INFLUENCES; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; OPERATIONS (WASTEWATER); OPERATIONS (WATER); POLLUTION; *PUBLIC HEALTH; *POST SECONDARY EDUCATION; UTILITIES; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY; WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 752P. ORDER NO. O 471 25115-1

ABSTRACT: WATER AND WASTEWATER SYSTEMS, STATISTICAL HYDROLOGY, SURFACEWATER COLLECTION, GROUNDWATER DEVELOPMENT, WATER TRANSMISSION, FLOW IN SEWERS AND THEIR APPURTENANCES, WATER-QUALITY MANAGEMENT, UNIT OPERATIONS AND TREATMENT KINETICS, AERATION AND GAS TRANSFER, SCREENING, SEDIMENTATION, AND FLOTATION. FILTRATION, FLOCCULATION, ADSORPTION, DESALINATION, AND ION EXCHANGE. CHEMICAL COAGULATION, PRECIPITATION, AND STABILIZATION, INCLUDING THE MITIGATION OF CORROSION. DISINFECTION. BIOLOGICAL TRANSFER PROCESSES. BIOLOGICAL TREATMENT SYSTEMS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($28.25)

IRIS ACCESSION NUMBER: EW000858

TITLE: ENGINEERING MANAGEMENT OF WATER QUALITY.

PERSONAL AUTHOR: MCGAUHEY, P. H.

DESCRIPTOR: *ENGINEERING; *FACILITIES; INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PLANNING; POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER QUALITY

ABSTRACT: ENGINEERING MANAGEMENT SCHEMES FOR SMALL AND LARGE SCALE WATER QUALITY CONTROL SYSTEMS.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($22.50)

IRIS ACCESSION NUMBER: EW000861

TITLE: INDUSTRIAL POLLUTION CONTROL HANDBOOK.

PERSONAL AUTHOR: LUND, H. F.

DESCRIPTOR: *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *MANUALS; *POLLUTION; POST SECONDARY EDUCATION; *WASTE DISPOSAL; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

ABSTRACT: REVIEW OF INDUSTRIAL WASTE TREATMENT PROCEDURES.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($43.50)

IRIS ACCESSION NUMBER: EW000867

PUBLICATION DATE: 76

TITLE: LIME HANDLING, APPLICATION AND STORAGE IN TREATMENT PROCESSES, 2ND EDITION.

DESCRIPTOR: *CHEMICAL SAFETY; *CHEMICALS; *INSTRUCTIONAL MATERIALS; *LIME; *OPERATIONS (PLANT); *SAFETY

DESCRIPTIVE NOTE: #213 NLA BULLETIN

AVAILABILITY: NATIONAL LIME ASSOCIATION, 5010 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($2.00)

INSTITUTION NAME: NATIONAL LIME ASSOC.

IRIS ACCESSION NUMBER: EW000870

TITLE: MANUAL OF BRITISH WATER ENGINEERING PRACTICE, VOLUME 1 - ORGANIZATION AND MANAGEMENT.

DESCRIPTOR: ENGINEERING; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; MANUALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *TECHNOLOGY; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT; *GREAT BRITAIN

ABSTRACT: ORGANIZATIONAL AND MANAGEMENT TECHNIQUES USE IN ENGLAND IN THE WATER SUPPLY FIELD.

AVAILABILITY: W. HEFFER & SONS, LTD., 20 TRINITY STREET, CAMBRIDGE, ENGLAND CB2 3NG ($11.00)

INSTITUTION NAME: INSTITUTE OF WATER ENGINEERS.

IRIS ACCESSION NUMBER: EW000871

TITLE: MANUAL OF BRITISH WATER ENGINEERING PRACTICE, VOLUME 2 - ENGINEERING PRACTICE.

DESCRIPTOR: ENGINEERING; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; *FACILITIES; *INSTRUCTIONAL MATERIALS; MANAGEMENT; MANUALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *TECHNOLOGY; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT; *GREAT BRITAIN

ABSTRACT: DESIGN PROCEDURES FOR WATER TREATMENT PLANTS USED IN THE BRITISH EMPIRE.

AVAILABILITY: W. HEFFER & SONS, LTD., 20 TRINITY STREET, CAMBRIDGE, ENGLAND CB2 3NG ($11.00)

INSTITUTION NAME: INSTITUTE OF WATER ENGINEERS.

IRIS ACCESSION NUMBER: EW000872

TITLE: MANUAL OF BRITISH WATER ENGINEERING PRACTICE, VOLUME 3 - WATER QUALITY AND TREATMENT.

DESCRIPTOR: *ENGINEERING; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; MANAGEMENT; MANUALS; POLLUTION; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; SANITATION; TECHNOLOGY; *WATER POLLUTION CONTROL; *WATER QUALITY; WATER SUPPLY; *WATER TREATMENT; *GREAT BRITAIN

ABSTRACT: WATER TREATMENT PROCEDURES USED IN WATER SUPPLIES OF THE BRITISH EMPIRE.

AVAILABILITY: W. HEFFER & SONS, LTD., 20 TRINITY STREET, CAMBRIDGE, ENGLAND CB2 3NG ($11.00)

INSTITUTION NAME: INSTITUTE OF WATER ENGINEERS.

IRIS ACCESSION NUMBER: EW000885

PUBLICATION DATE: 72

TITLE: WASTE TREATMENT WITH POLYELECTROLYTES.

PERSONAL AUTHOR: GUTCHO, S.

DESCRIPTOR: *COAGULATION; *INDUSTRIAL WASTES; *POLYELECTROLYTES; *SEWAGE; *WASTEWATER TREATMENT; INSTRUCTIONAL MATERIALS; OPERATIONS; POST SECONDARY EDUCATION; WASTE DISPOSAL

DESCRIPTIVE NOTE: 237P

ABSTRACT: POLYELECTROLYTES ARE HIGHMOLECULAR-WEIGHT POLYMERS. THEY ARE WATER SOLUBLE OR WATER DISPERSIBLE AND MAY BE ANIONIC, CATIONIC OR NONIONIC. THEY ARE NOW BEING USED IN THE TREATMENT OF SEWAGE, THE CLARIFICATION OF INDUSTRIAL WASTE WATER, AND THE PURIFICATION OF CONTAMINATED RIVERS AND LAKES. ATTENTION IS FOCUSED ON PHOSPHATE REMOVAL, LOW ASH SEWAGE SLUDGE FORMATION, AND ON RECYCLING OF WASTE WATER FOR ACCEPTABLE PURITY.

AVAILABILITY: NOYES DATA CORP. NOYES BUILDING, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656 ($36.00).

IRIS ACCESSION NUMBER: EW000888

PUBLICATION DATE: 71

TITLE: WATER AND WATER POLLUTION HANDBOOK. VOL. 2.

PERSONAL AUTHOR: CIACCIO, LEONARD L., ED.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BIOLOGY; CHEMISTRY; EFFLUENTS; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POLLUTION; *SAMPLING; *WATER RESOURCES; WASTE DISPOSAL; WATER QUALITY; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT; *MICROBIOLOGY

DESCRIPTIVE NOTE: 349P. OTHER VOLUMES OF THIS HANDBOOK: EW000889, EW001448, AND EW003861

ABSTRACT: THIS BOOK IS ONE IN A FOUR VOLUME SET THAT DISCUSSES THE PHYSICAL, CHEMICAL AND BIOLOGICAL CHARACTERISTICS OF VARIOUS PARTS OF THE WATER ENVIRONMENT AND ASSOCIATED SYSTEMS. TOPICS COVERED IN THIS VOLUME ARE:

(1) SAMPLING IN NATURAL WATERS AND WASTE EFFLUENTS; (2) CONCENTRATION AND SEPARATION TECHNIQUES; (3) INSOLUBLE MATERIAL IN NATURAL WATER; (4) BACTERIAL AND VIRAL ANALYSIS OF WASTES AND WASTE WATER; AND (5) TOXICITY BIOASSAY TECHNIQUES USING AQUATIC ORGANISMS. (JK)

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 14305 ($52.50)

IRIS ACCESSION NUMBER: EW000889

PUBLICATION DATE: 72

TITLE: WATER AND WATER POLLUTION HANDBOOK, VOLUME 3.

PERSONAL AUTHOR: CIACCIO, LEONARD L., ED.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BIOCHEMICAL OXYGEN DEMAND; BIOLOGY; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *LABORATORY TECHNIQUES; MATHEMATICAL MODELS; MONITORING; NATURAL RESOURCES; POLLUTION; SAMPLING; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 528P. OTHER VOLUMES OF THIS HANDBOOK: EW000888, EW001448, AND EW003861

ABSTRACT: THIS BOOK IS ONE IN A FOUR VOLUME SET THAT DISCUSSES THE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS OF VARIOUS PARTS OF THE WATER ENVIRONMENT AND ASSOCIATED SYSTEMS. TOPIC DISCUSSIONS OF THIS VOLUME INCLUDE: (1) SPECIFIC TESTS FOR CHLORINE, PESTICIDES, AND OTHER ELEMENTS; (2) BIOCHEMICAL OXYGEN DEMAND; (3) INSTRUMENTAL TECHNIQUES; (4) BIOLOGICAL TESTS; (5) SAMPLING, CONCENTRATION AND SEPARATION TECHNIQUES; (6) MONITORING SYSTEMS; AND (7) CHEMICAL KINETICS AND DYNAMICS IN THE WATER SYSTEM. (CS)

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 14305 ($52.50)

IRIS ACCESSION NUMBER: EW000890

PUBLICATION DATE: 66

TITLE: WATER AND WASTEWATER ENGINEERING, VOLUME 1 - WATER SUPPLY AND WASTEWATER REMOVAL.

PERSONAL AUTHOR: FAIR, G. M.; AND OTHERS

DESCRIPTOR: COLLECTION SYSTEMS; DISTRIBUTION SYSTEMS; *ENGINEERING; FACILITIES; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; SANITATION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY; WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 489P.

ABSTRACT: GIVES A COMPLETE DEVELOPMENT OF THE PRINCIPLES AND METHODOLOGY OF HYDRAULICS AND HYDROLOGY. MUCH CONSIDERATION IS GIVEN TO THE QUANTITIES REQUIRED AND TO BE DISPOSED OF, AS WELL AS THE STATISTICAL ANALYSIS OF THESE AND OTHER HYDROLOGIC DATA. WATER QUALITY IS CONSIDERED, BUT THE MAJOR WORK ON THE CHEMISTRY AND BIOLOGY OF THIS SUBJECT IS RESERVED FOR VOLUME 2.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($26.95)

IRIS ACCESSION NUMBER: EW000891

PUBLICATION DATE: 68

TITLE: WATER AND WASTEWATER ENGINEERING, VOLUME 2 - WATER PURIFICATION & WASTEWATER TREATMENT & DISPOSAL.

PERSONAL AUTHOR: FAIR, G. M.; AND OTHERS

DESCRIPTOR: *BIOCHEMISTRY; *ENGINEERING; *FACILITIES; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; POLLUTION; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 668P.

ABSTRACT: PRESENTS DETAILED CONSIDERATIONS OF THEORIES AND PRINCIPLES OF WATER AND WASTEWATER TREATMENT. MANAGEABLE VARIABLES ARE IDENTIFIED AND ENGINEERING CONTROL THROUGH GOOD DESIGN AND PROPER OPERATION IS EMPHASIZED.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($31.25)

IRIS ACCESSION NUMBER: EW000899

PUBLICATION DATE: MAY 72

TITLE: BASIC STATISTICS - PART I (XT-49).

PERSONAL AUTHOR: DONAHUE, A. E.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; *STATISTICS; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 20 MINUTE TAPE, 46 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR LABORATORY PERSONNEL IN CHEMISTRY AND OTHERS WHO NEED BASIC INFORMATION ABOUT (1) GRAPHICAL TECHNIQUES FOR SUMMARIZING DATA AND (2) THE DETERMINATION OF CENTRAL TENDENCY STATISTICS. THIS IS PART ONE OF A TWO-PART SERIES. THE TOPICS COVERED ARE ANALYTICAL RESULTS AS SAMPLES OF A NUMBER POPULATION, SOME REQUIREMENTS FOR VALID DATA, CONSTRUCTION OF FREQUENCY TABLES, HISTOGRAMS AND POLYGONS, NORMAL DISTRIBUTION CURVES, USE OF NORMAL PROBABILITY PAPER, AND THE DEFINITION AND DETERMINATION OF THE MODE, MEDIAN, AND MEAN AS MEASURES OF CENTRAL TENDENCY. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000900

PUBLICATION DATE: MAY 72

TITLE: BASIC STATISTICS - PART II (XT-50).

PERSONAL AUTHOR: DONAHUE, AUDREY

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL APPLICATIONS; MATHEMATICS; *POST SECONDARY EDUCATION; *STATISTICAL ANALYSIS; *STATISTICS; SLIDES

DESCRIPTIVE NOTE: INCLUDED IS A 30 MINUTE TAPE, 59 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR LABORATORY PERSONNEL (CHEMISTRY) AND OTHERS WHO NEED BASIC INFORMATION ABOUT THE CALCULATION OF DISPERSION STATISTICS. THIS IS PART TWO OF A TWO-PART SERIES. TOPICS PRESENTED INCLUDE: (1) DEFINITIONS AND STEP-BY-STEP INSTRUCTIONS FOR CALCULATING DISPERSION STATISTICS (RANGE, DEVIATION, VARIANCE, AND STANDARD DEVIATION); (2) CRITERIA FOR CHOOSING WHICH TO CALCULATE; (3) APPLICATION OF MEAN AND STANDARD DEVIATION AS ESTIMATES OF NORMAL DISTRIBUTION PARAMETERS; AND (4) A SUMMARY OF PARTS I AND II. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000901

PUBLICATION DATE: MAR 74

TITLE: DETERMINATION OF GREASE AND OIL (XT-56).

PERSONAL AUTHOR: FELDMANN, C. R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *OIL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 10 MINUTE TAPE, 54 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATOR PERSONNEL AND WASTEWATER TREATMENT PLANT OPERATORS. I PRESENTS THE LABORATORY PROCEDURE TO DETERMINE GREASE AN OIL. THE TOPICS ARE TERMINOLOGY, PROBLEMS CAUSED BY GREASE AND OIL IN WASTEWATER TREATMENT, SAMPLING AND PRESERVATION, APPARATUS, THE STEPWISE PROCEDURE, AND CALCULATIONS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000902

PUBLICATION DATE: APR 76

TITLE: DETERMINATION OF SUSPENDED SOLIDS (XT-57).

PERSONAL AUTHOR: FELDMANN, C. R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SLIDES; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *SUSPENDED SOLIDS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 10 MINUTE TAPE, 40 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR BEGINNING LABORATORY PERSONNEL AND WASTEWATER TREATMENT PLANT OPERATORS. EMPHASIZED IS THE LABORATORY PROCEDURE TO DETERMINE SUSPENDED SOLIDS. TOPICS ARE: IMPORTANCE OF SUSPENDED SOLIDS TO WATER QUALITY, SAMPLING, APPARATUS, THE STEPWISE PROCEDURE, AND CALCULATIONS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000903

PUBLICATION DATE: NOV 72

TITLE: PROCESS CONTROL DEMANDS - PART A (XT-60)

PERSONAL AUTHOR: WEST, A.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; SLIDES; WASTES; *WATER POLLUTION CONTROL; *ACTIVATED SLUDGE; *OPERATIONS (WASTEWATER)

DESCRIPTIVE NOTE: INCLUDED IS A 10 MINUTE TAPE, 19 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR EXPERIENCED WASTEWATER WORKS OPERATORS WHO DESIRE TO UPGRADE PLANT PERFORMANCE AND TO INCREASE THEIR OWN KNOWLEDGE AND SKILLS. PROVIDED IS AN INTRODUCTION TO A SERIES ON OPERATIONAL CONTROL OF AN ACTIVATED SLUDGE PROCESS. A PLANT SCHEMATIC IS USED TO PRESENT THE EFFECTS OF RETURN SLUDGE FLOW ADJUSTMENTS ON SLUDGE CONCENTRATIONS, SLUDGE DETENTION TIMES, PROCESS EQUILIBRIUM, SLUDGE CHARACTERISTICS, AND FINAL EFFLUENT QUALITY. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000904

PUBLICATION DATE: NOV 72

TITLE: PROCESS CONTROL DEMANDS - PART B (XT-61).

PERSONAL AUTHOR: WEST, A.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WATER POLLUTION CONTROL; *PLANT OPERATIONS; *WASTEWATER TREATMENT; SLUDGE; *ACTIVATED SLUDGE

DESCRIPTIVE NOTE: INCLUDED IS A 15 MINUTE TAPE AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR EXPERIENCED WASTEWATER WORKS OPERATORS WHO WISH TO UPGRADE PLANT PERFORMANCE AND TO INCREASE THEIR OWN KNOWLEDGE AND SKILLS. ONE OF A SERIES, THIS MODULE PRESENTS THE DERIVATION OF MIXING FORMULA THAT WILL BE USED IN SUBSEQUENT SECTIONS TO DEVELOP THE RETURN SLUDGE FLOW DEMAND FORMULA USED IN OPERATIONAL CONTROL OF AN ACTIVATED SLUDGE PROCESS. A SCHEMATIC IS USED TO ILLUSTRATE COMPONENTS OF THE FORMULA AND TO DEVELOP A FINAL MASS BALANCE RATIO OF RETURN SLUDGE CONCENTRATION TO MIXED LIQUOR CONCENTRATION IN TERMS OF CLARIFIER SLUDGE PERCENTAGE. SIMPLE MIXING FORMULAE ARE THEN DERIVED FOR EACH OF THE THREE FACTORS ALONG WITH EXAMPLE CALCULATIONS. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW000922

PUBLICATION DATE: 73

TITLE: FUELS AND LUBRICANTS: SELECTING AND STORING.

DESCRIPTOR: CONSUMER EDUCATION; DIESEL FUEL; *FUELS; *GAS; HYDRAULIC FLUID; *INSTRUCTIONAL MATERIALS; *LUBRICANTS; OIL; *POST SECONDARY EDUCATION; SAFETY; *SLIDES; *VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. M102 (TRANSPARENCY, $7.95), NO. S102 (SLIDES, $29.85), NO. 102 (PRINTED, $3.45)

ABSTRACT: AS THE SUPPLY OF PETROLEUM FUELS AND LUBRICANTS BECOMES SMALLER AND COST CONTINUES TO INCREASE, IT IS IMPORTANT THAT EVERYONE LEARN HOW TO SELECT THEM PROPERLY AND TO STORE THEM SAFELY. FROM THIS STUDY, A STUDENT WILL BE ABLE TO SELECT AND STORE THE FOLLOWING FUELS AND LUBRICANTS PROPERLY; GASOLINE, LP-GAS, DIESEL FUEL, CRANKCASE OIL, GEAR LUBRICANT, HYDRAULIC FLUID, GREASE.

AVAILABILITY: AMERICAN ASSOCIATION FOR VOCATIONAL INSTRUCTIONAL MATERIALS, ENGINEERING CENTER, ATHENS, GA 30602

INSTITUTION NAME: AMERICAN ASSOCIATION FOR VOCATIONAL INSTRUCTIONAL MATERIALS.

IRIS ACCESSION NUMBER: EW000957

PUBLICATION DATE: 77

TITLE: WATER DISTRIBUTION SYSTEMS COURSE WORKBOOK.

PERSONAL AUTHOR: HANHILAMMI, R. J.

DESCRIPTOR: *DISTRIBUTION SYSTEMS; ENGINEERING; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; PROGRAMED INSTRUCTION; *UTILITIES; WATER RESOURCES; *WATER SUPPLY; *WATER TREATMENT; *OPERATIONS (WATER)

ABSTRACT: WORKBOOK FOR CLASS ON DISTRIBUTION SYSTEMS.

AVAILABILITY: OPERATOR TRAINING COMMITTEE OF OHIO, INC., P.O. BOX 626, WORTHINGTON, OH 43085 ($12.00)

IRIS ACCESSION NUMBER: EW000962

PUBLICATION DATE: 77

TITLE: FACILITIES AND OPERATING PROCEDURES FOR CHLORINE STORAGE.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHLORINE; *EQUIPMENT UTILIZATION; FACILITIES; INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 20P. INCLUDES DRAWINGS, NO. 5, 3RD ED.

ABSTRACT: SUGGESTS GENERALLY APPLICABLE EQUIPMENT AND OPERATING PROCEDURES FOR CHLORINE STORAGE FACILITIES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000964

PUBLICATION DATE: 73

TITLE: CONTAINER PROCEDURE FOR CHLORINE PACKAGING.

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; CHEMICAL REACTIONS; ENVIRONMENTAL INFLUENCES; HEALTH; JOB SKILLS

DESCRIPTIVE NOTE: 24P. INCLUDES DRAWINGS, NO. 7, 4TH ED

ABSTRACT: SUGGESTS PROCEDURES FOR INSPECTION, TESTING, CLEANING AND LOADING OF CYLINDERS AND TON CONTAINERS.

AVAILABILITY: THE CHLORINE INSTITUTE, INC. 342 MADISON AVENUE, NEW YORK, NY 10017 ($2.25)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000965

PUBLICATION DATE: 70

TITLE: OPERATION OF CHLORINE VAPORIZING EQUIPMENT.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHLORINE; ENVIRONMENTAL INFLUENCES; *EQUIPMENT UTILIZATION; HEALTH; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 16P. NO. 9, 2ND ED.

ABSTRACT: CONTAINS INFORMATION INTENDED TO ASSIST IN THE SELECTION, DESIGN AND SAFE OPERATION OF VAPORIZERS.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000967

PUBLICATION DATE: 77

TITLE: MAINTENANCE INSTRUCTIONS FOR CHLORINE INSTITUTE STANDARD SAFETY VALVES, TYPE 1 1/2 JQ.

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; *EQUIPMENT MAINTENANCE; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *MAINTENANCE; *POST SECONDARY EDUCATION; *SAFETY; *VALVES

DESCRIPTIVE NOTE: 28P. INCLUDES DRAWINGS, NO. 39, 7TH ED.

ABSTRACT: ILLUSTRATED INSTRUCTIONS ON MAINTENANCE OF CROSBY STYLE 1 1/2 JQ CHLORINE SAFETY VALVES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($2.50)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000968

PUBLICATION DATE: 77

TITLE: MAINTENANCE INSTRUCTIONS FOR CHLORINE INSTITUTE STANDARD ANGLE VALVE.

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; *EQUIPMENT MAINTENANCE; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *MAINTENANCE; *POST SECONDARY EDUCATION; *SAFETY; *VALVES

DESCRIPTIVE NOTE: 20P. INCLUDES DRAWINGS, NO. 40, 3RD ED

ABSTRACT: ILLUSTRATED INSTRUCTIONS ON MAINTENANCE OF STANDARD CHLORINE ANGLE VALVE.

AVAILABILITY: THE CHLORINE INSTITUTE, INC. 342 MADISON AVENUE, NEW YORK, NY 10017 ($2.50)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000969

PUBLICATION DATE: 75

TITLE: MAINTENANCE INSTRUCTIONS FOR CHLORINE INSTITUTE STANDARD SAFETY VALVES, TYPE 4 JQ.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHLORINE; *EQUIPMENT MAINTENANCE; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *MAINTENANCE; *POST SECONDARY EDUCATION; *SAFETY; *VALVES

DESCRIPTIVE NOTE: 20P. INCLUDES DRAWINGS, NO. 41, 3RD ED.

ABSTRACT: ILLUSTRATED INSTRUCTIONS ON MAINTENANCE OF 4 JQ SAFETY VALVES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($2.50)

INSTITUTION NAME: THE CHLORINE INSTUTUTE, INC.

IRIS ACCESSION NUMBER: EW000970

PUBLICATION DATE: 72

TITLE: MAINTENANCE INSTRUCTIONS FOR CHLORINE INSTITUTE STANDARD EXCESS FLOW VALVES.

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; *EQUIPMENT MAINTENANCE; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *MAINTENANCE; *POST SECONDARY EDUCATION; *SAFETY; *VALVES

DESCRIPTIVE NOTE: 16P. INCLUDES DRAWINGS, NO. 42, 3RD ED.

ABSTRACT: ILLUSTRATED INSTRUCTIONS ON MAINTENANCE OF STANDARD CHLORINE EXCESS FLOW VALVES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($2.50)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000971

PUBLICATION DATE: 73

TITLE: HANDLING CHLORINE TANK MOTOR VEHICLES.

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; *DELIVERY SYSTEMS; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPORTATION; LEGISLATION

DESCRIPTIVE NOTE: 30P. INCLUDES DRAWINGS, NO. 49, 4TH ED

ABSTRACT: CONTAINS GENERAL INFORMATION USEFUL TO ANYONE CONCERNED IN TANK TRUCKS. INCLUDES INFORMATION ON DRIVER QUALIFICATIONS AND VEHICLES ROUTING; LOADING, IN-TRANSIT AND UNLOADING PRACTICES; EXCERPTS OF PERTINENT DOT REGULATIONS; TANK TRUCK LOADING CHECK LIST; AND, EMERGENCY INSTRUCTION CARD.

AVAILABILITY: THE CHLORINE INSTITUTE, INC. 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000973

PUBLICATION DATE: 65

TITLE: EMERGENCY SHUTOFF FACILITIES FOR CHLORINE TANK CAR LOADING AND UNLOADING OPERATIONS.

DESCRIPTOR: CHEMICAL REACTIONS; *CHLORINE; *DELIVERY SYSTEMS; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 7P. INCLUDES DRAWINGS, NO. 57

ABSTRACT: PRESENTS DETAILS OF AN AUTOMATIC CUTOFF SYSTEM AIMED TO REDUCE THE CHANCES OF MAJOR CHLORINE SPILLS DURING CHLORINE TANK CAR LOADING AND UNLOADING OPERATIONS. INCLUDES GENERAL SPECIFICATIONS FOR BASIC EQUIPMENT AND TWO SCHEMATIC DRAWINGS.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000974

PUBLICATION DATE: 75

TITLE: CHLORINE-RELATED AUDIOVISUAL TRAINING AIDES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIBLIOGRAPHIES; CHEMISTRY; *CHLORINE; ENVIRONMENTAL TECHNOLOGY; FILMS; FILMSTRIPS; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 2P. NO. 58

ABSTRACT: LISTS KNOWN FILMS AND FILMSTRIPS AVAILABLE FOR TRAINING PURPOSES AND INFORMATION AS TO TYPE, CONTENT, DURATION, AND AVAILABILITY.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($0.50)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000975

PUBLICATION DATE: 75

TITLE: FIRST AID AND MEDICAL MANAGEMENT OF CHLORINE EXPOSURES.

DESCRIPTOR: *CHEMICAL REACTIONS; *CHLORINE; *FIRST AID; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 4P. NO. 63, 2ND ED.

ABSTRACT: GIVES RECOMMENDATIONS ON FIRST AID AND MEDICAL MANAGEMENT OF CHLORINE EXPOSURES. DEVELOPED BY THE INSTITUTE'S ENVIRONMENTAL HEALTH COMMITTEE.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.25)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000980

PUBLICATION DATE: 64

TITLE: WALL CHART - SAFE HANDLING OF CHLORINE CONTAINERS (WC-I).

DESCRIPTOR: *CHEMICAL INDUSTRY; CHEMICAL REACTIONS; *CHLORINE; *EQUIPMENT UTILIZATION; *FIRST AID; *INSTRUCTIONAL MATERIALS; *SAFETY; *WALL CHARTS

DESCRIPTIVE NOTE: CHART MEASURES 12 1/2 X 23 INCHES

ABSTRACT: CONTAINS RECOMMENDATIONS FOR SAFE HANDLING OF CHLORINE CYLINDERS AND TON CONTAINERS, EMERGENCY PROCEDURES AND APPLICABLE PRINCIPLES OF FIRST AID.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000981

TITLE: CHLORINE: AN ANNOTATED BIBLIOGRAPHY (BIBL. CL.).

PERSONAL AUTHOR: SMITH, R. G.

DESCRIPTOR: *BIBLIOGRAPHIES; *CHEMICAL INDUSTRY; CHEMICAL REACTIONS; *CHLORINE; ENVIRONMENTAL INFLUENCES; HEALTH; POLLUTION; *SAFETY

DESCRIPTIVE NOTE: 488 REFERENCES

ABSTRACT: REFERENCES OF THE WORLD'S LITERATURE ON MEDICAL, TOXICOLOGICAL, INDUSTRIAL HYGIENE AND ENVIRONMENTAL ASPECTS OF EXPOSURE TO CHLORINE. REFERENCES ARE ARRANGED CHRONOLOGICALLY FROM 1824 TO 1971, ACCORDING TO THE YEAR PUBLISHED AND, WITHIN EACH YEAR, ALPHABETICALLY BY AUTHOR. ADDITIONALLY, A SUBJECT INDEX AND AN AUTHOR INDEX ARE PROVIDED.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($6.25)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000982

PUBLICATION DATE: 75

TITLE: ESTIMATING AREA AFFECTED BY A CHLORINE RELEASE (R-71).

PERSONAL AUTHOR: HOWERTON, A. E.

DESCRIPTOR: *CHEMICAL REACTIONS; *CHLORINE; *ENVIRONMENTAL INFLUENCES; *POLLUTION; *PUBLIC HEALTH; *SAFETY

DESCRIPTIVE NOTE: 15P.

ABSTRACT: ADAPTED AND UPDATED FROM A PAPER PRESENTED AT AICHE SYMPOSIUM, MARCH 1969.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

IRIS ACCESSION NUMBER: EW000983

PUBLICATION DATE: 71

TITLE: FEDERAL SPECIFICATIONS - CHLORINE TECHNICAL: LIQUID (BB-C-120B).

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; *FEDERAL LEGISLATION; *SAFETY; *STANDARDS

DESCRIPTIVE NOTE: 12P.

ABSTRACT: FEDERAL STANDARDS FOR CHLORINE.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($0.30)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW000991

TITLE: WATER QUALITY ANALYSIS OF THE UPPER DELAWARE RIVER EASTON TO TRENTON.

DESCRIPTOR: BIOCHEMICAL OXYGEN DEMAND; *DISSOLVED OXYGEN; INSTRUCTIONAL MATERIALS; *MATHEMATICAL MODELS; *MODELS; NITRIFICATION; PLANKTON; POST SECONDARY EDUCATION; *RIVERS; *WATER ANALYSIS; WATER QUALITY

ABSTRACT: A STEADY-STATE MATHEMATICAL MODEL WAS DEVELOPED FOR DISSOLVED OXYGEN IN THE DELAWARE RIVER FROM TRENTON N TO EASTON PA.

AVAILABILITY: DELAWARE RIVER BASIN COMMISSION, PO BOX 360, TRENTON, NJ 08603 ($4.00)

INSTITUTION NAME: DELAWARE RIVER BASIN COMMISSION.

IRIS ACCESSION NUMBER: EW000993

PUBLICATION DATE: 72

TITLE: PROCEEDINGS, CLOSE CYCLE OPERATIONS BY INDUSTRY: WATER QUALITY SEMINAR.

PERSONAL AUTHOR: PORGES, R.; AND OTHERS.

DESCRIPTOR: *INDUSTRIAL WASTES; *INDUSTRY; *RECYCLING; *WATER QUALITY; *WATER REUSE; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; SEMINARS; WASTEWATER TREATMENT

ABSTRACT: PROCEEDINGS OF A ONE-DAY SEMINAR DIRECTED TO EXAMINATION OF THE POTENTIAL AND PROSPECTS OF CLOSED CYCLE OPERATIONS AS AN ALTERNATIVE TO MEETING CURRENT WATER QUALITY REQUIREMENTS AND TO SATISFY PROJECT REQUIREMENTS THEN UNDER LEGISLATIVE CONSIDERATION. PAPERS DISCUSSED POSSIBILITIES IN THE PETROLEUM, CHEMICAL, STEEL, PAPER, PHARMACEUTICAL, AND ELECTROPLATING INDUSTRIES, WASTE RESIDUES, AND RESEARCH NEEDS.

AVAILABILITY: DELAWARE RIVER BASIN COMMISSION, PO BOX 360, TRENTON, NJ 08603 ($2.00).

IRIS ACCESSION NUMBER: EW000995

PUBLICATION DATE: 70

TITLE: BRUSH CREEK BOUNCES BACK.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; *FLOOD CONTROL; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION; *RESERVOIRS; WATER POLLUTION CONTROL; WATER QUALITY; *WATERSHEDS; WATER SUPPLY

DESCRIPTIVE NOTE: 16MM, 22 MIN., COLOR

ABSTRACT: A SMALL WATERSHED PROJECT WHICH PROVIDES FLOOD CONTROL, POLLUTION CONTROL, ETC.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($22.50 RENTAL; $225.00 PURCHASE)

INSTITUTION NAME: STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000997

PUBLICATION DATE: 69

TITLE: THE LITTLE RIVERS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; *FLOODS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION; *URBAN AREAS; WATER QUALITY; *WATER RESOURCES; WATER SUPPLY

DESCRIPTIVE NOTE: 16MM, 20 MIN., COLOR

ABSTRACT: A PROPOSED WATER RESOURCES DEVELOPMENT SYSTEM FOR AN URBAN AREA.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000998

PUBLICATION DATE: 65

TITLE: OOPS.

DESCRIPTOR: ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; ENVIRONMENT; *FILMS; *INDUSTRIAL WASTES; INSTRUCTIONAL FILMS; *OIL SPILLS; *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 20 MIN., COLOR

ABSTRACT: SHOWS HOW EMPLOYEES AND MANAGEMENT CAN PREVENT SPILLS FROM MANUFACTURING PLANTS.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: ORSANCO.; STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW000999

PUBLICATION DATE: 62

TITLE: TWENTIETH CENTURY RIVER.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *MONITORING; POLLUTION; POST SECONDARY EDUCATION; *RIVERS; *WATER ANALYSIS; *WATER POLLUTION CONTROL; WATER QUALITY; WATER STORAGE; WATER SUPPLY

DESCRIPTIVE NOTE: 16MM, 29 MIN., COLOR

ABSTRACT: THE CORPS OF ENGINEERS RIVER EVALUATION PROGRAM.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: CORP OF ENGINEERS.; STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW001000

PUBLICATION DATE: 66

TITLE: WATER RESOURCEFULNESS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; FILMS; *INSTRUCTIONAL FILMS; LAWS; POLLUTION; POST SECONDARY EDUCATION; REGULATIONS; *STATE ROLE; WATER POLLUTION CONTROL; WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 16MM, 22 MIN, COLOR

ABSTRACT: NEW YORK STATE'S COMPREHENSIVE WATER RESOURCES PROGRAM.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: NEW YORK STATE COMPREHENSIVE WATER RESOURCES PROGRAM.; STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW001001

PUBLICATION DATE: JAN 74

TITLE: ONE, TWO, THREE...CLEAN.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; MUNICIPAL WASTES; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *TERTIARY TREATMENT; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 13 MIN., COLOR

ABSTRACT: SHOWS HOW A TERTIARY SEWAGE TREATMENT PLANT WORKS.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($20.00 RENTAL; $200.00 PURCHASE)

INSTITUTION NAME: STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW001002

PUBLICATION DATE: 73

TITLE: WATER QUALITY PLANNING (1973 PROCEEDINGS).

DESCRIPTOR: *CONFERENCE REPORTS; INSTRUCTIONAL MATERIALS; *PLANNING; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 32P.

ABSTRACT: PROCEEDINGS OF THE ANNUAL SPRING MEETING HELD ON MAY 10, 1973 AT NEW CARROLLTON, MD BY ICPRB.

AVAILABILITY: INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN, 414 EAST WEST TOWERS, 4350 EAST WEST HIGHWAY, BETHESDA, MD 20014 (FREE)

INSTITUTION NAME: INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN.

IRIS ACCESSION NUMBER: EW001005

PUBLICATION DATE: DEC 70

TITLE: POPULATION AND POLLUTION.

DESCRIPTOR: *AIR POLLUTION CONTROL; AUDIOVISUAL AIDS; *CONSERVATION; ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; LAND USE; *POLLUTION; *POPULATION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 17 MIN., COLOR

ABSTRACT: SHOWS THAT THE PROBLEMS OF POLLUTION ARE CAUSED BOTH BY MISUSE OF THE ENVIRONMENT AND BY THE GREAT DEMANDS OF A GROWING POPULATION. EMPHASIZES THE NEED FOR CHANGES IN ATTITUDE AND A COMMITMENT TO FINDING BOTH SHORT-RANGE AND LONG-RANGE SOLUTIONS TO PROBLEMS OF AIR, WATER, AND LAND POLLUTION.

AVAILABILITY: INTERNATIONAL FILM BUREAU, INC., 332 SOUTH MICHIGAN AVE., CHICAGO, IL 60604 ($17.50 RENTAL; $250.00 PURCHASE)

INSTITUTION NAME: INTERNATIONAL FILM BUREAU, INC.

IRIS ACCESSION NUMBER: EW001012

PUBLICATION DATE: 73

TITLE: BIOASSAY TECHNIQUES AND ENVIRONMENTAL CHEMISTRY.

PERSONAL AUTHOR: GLASS, G. E.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BIOLOGICAL ANALYSIS; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *WATER ANALYSIS; ENVIRONMENT; MICROBIOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 496P. 128 FIGURES, 596 REFERENCES

ABSTRACT: DESCRIBES BIOASSAY TECHNIQUES COMPLETELY FOR A WIDE VARIETY OF ORGANISMS AND CONDITIONS. STATE-OF-THE-ART IS APPLIED TO SOLVING ENVIRONMENTAL PROBLEMS USING BIOLOGICAL AND CHEMICAL INDICATORS. LIVING ORGANISMS ARE STUDIED AS INDICATORS OF ENVIRONMENTAL POLLUTION -- STRESSES AND EFFECTS. PROVIDES EXAMPLES OF END POINTS AND INDICATORS USED IN BIOASSAY. DESCRIBES CONDITIONS AND SUPPORTING TECHNIQUES FOR BIOASSAY AND APPLICATIONS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($20.00)

INSTITUTION NAME: ANN ARBOR SCIENCE PUBLISHERS.

IRIS ACCESSION NUMBER: EW001020

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 1: FUNDAMENTALS - ELEMENTS OF BIOLOGICAL WASTEWATER.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS

DESCRIPTOR: *BIOLOGY; *CERTIFICATION; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POLLUTION; *POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 272P. COST OF THE 8-UNIT SET (EW001020-EW001027) IS $76.00

ABSTRACT: SELF-TEACHING (PROGRAMMED LEARNING) SERIES FOR PREPARATION FOR MUNICIPAL/STATE CERTIFICATION AS TREATMENT PLANT OPERATOR. FIRST BOOK ON FUNDAMENTALS OF WASTEWATER TREATMENT.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($14.50)

IRIS ACCESSION NUMBER: EW001021

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 2: FUNDAMENTALS - WATER AND ITS IMPURITIES.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS.

DESCRIPTOR: *BIOLOGY; *CERTIFICATION; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *OPERATIONS WASTEWATER; *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; *WATER ANALYSIS; POLLUTION; POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 352P. COST OF THE 8-UNIT SET (EW001020-EW001027) IS $76.00)

ABSTRACT: SECOND BOOK ON FUNDAMENTALS OF WASTEWATER TREATMENT. SELF-TEACHING MANUAL TO PREPARE INDIVIDUAL FOR MUNICIPAL/STATE CERTIFICATION AS A TREATMENT PLANT OPERATOR. BUILT ON INFORMATION PROVIDED IN UNIT 1.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($14.50).

IRIS ACCESSION NUMBER: EW001022

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 3: FUNDAMENTALS - REACTIONS IN WATER SOLUTIONS.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS

DESCRIPTOR: *CHEMICAL REACTIONS; *CHEMISTRY; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; *WATER ANALYSIS

DESCRIPTIVE NOTE: 252P. COST OF THE 8-UNIT SET (EW001020-EW001027) IS $76.00

ABSTRACT: THIRD BOOK IN SERIES ON FUNDAMENTALS OF WASTEWATER TREATMENT. SELF-TEACHING MANUAL TO PREPARE INDIVIDUAL FOR MUNICIPAL/STATE CERTIFICATION AS A TREATMENT PLANT OPERATOR. BUILT ON INFORMATION PROVIDED IN UNITS 1 AND 2.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($14.50)

IRIS ACCESSION NUMBER: EW001023

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 4: FUNDAMENTALS - PRINCIPLES OF ADVANCED WASTEWATER.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS

DESCRIPTOR: BIOLOGY; *CERTIFICATION; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *POLLUTION; POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 158P. COST OF THE 8-UNIT SET (EW001020-EW001027) IS $76.00

ABSTRACT: FOURTH BOOK IN SERIES ON FUNDAMENTALS OF WASTEWATER TREATMENT. SELF-TEACHING MANUAL TO PREPARE INDIVIDUAL FOR MUNICIPAL/STATE CERTIFICATION AS A TREATMENT PLANT OPERATOR. BUILT ON INFORMATION PROVIDED IN UNITS 1-3.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($14.50)

IRIS ACCESSION NUMBER: EW001024

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 5: APPLICATIONS - DISSOLVED OXYGEN.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS

DESCRIPTOR: *CERTIFICATION; *CHEMISTRY; *DISSOLVED OXYGEN; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *OXYGEN; POLLUTION; POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 166P. COST OF THE 8-UNIT SET (EW001020-EW001027) IS $76.00

ABSTRACT: FIRST BOOK IN SERIES TO DEAL WITH APPLICATIONS IN WASTEWATER TREATMENT. SELF-TEACHING MANUAL TO PREPARE INDIVIDUAL FOR MUNICIPAL/STATE CERTIFICATION AS A TREATMENT PLANT OPERATOR.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($14.50)

IRIS ACCESSION NUMBER: EW001025

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 6: APPLICATIONS - ORGANIC POLLUTANTS.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS

DESCRIPTOR: BIOLOGY; *CERTIFICATION; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *ORGANIC CHEMISTRY; *POLLUTION; POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 323P. COST OF THE 8-UNIT SET (EW001020-EW001027) IS $76.00

ABSTRACT: SECOND BOOK IN SERIES TO DEAL WITH APPLICATIONS OF WASTEWATER TREATMENT. SELF-TEACHING MANUAL TO PREPARE INDIVIDUAL FOR MUNICIPAL/STATE CERTIFICATION AS TREATMENT PLANT OPERATOR. DEALS WITH ORGANIC POLLUTANTS IN WATER AND WASTEWATER.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($14.50)

IRIS ACCESSION NUMBER: EW001026

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 7: APPLICATIONS - INORGANIC POLLUTANTS.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS.

DESCRIPTOR: *CERTIFICATION; *INORGANIC CHEMISTRY; *INSTRUCTIONAL MATERIALS; *OPERATIONS WASTEWATER; *POLLUTION; *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; CHEMISTRY; POLLUTANTS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 347P. COST OF THE 8-UNIT SET (EW001020-EW001027) IS $76.00

ABSTRACT: THIRD BOOK IN SERIES TO DEAL WITH APPLICATIONS IN WASTEWATER TREATMENT. SELF-TEACHING MANUAL TO PREPARE INDIVIDUAL FOR MUNICIPAL/STATE CERTIFICATION AS TREATMENT PLANT OPERATOR. DEALS WITH INORGANIC POLLUTANTS IN WATER.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425, ANN ARBOR, MI 48106 ($14.50).

IRIS ACCESSION NUMBER: EW001027

PUBLICATION DATE: 73

TITLE: APPLIED CHEMISTRY OF WASTEWATER TREATMENT, UNIT 8: APPLICATIONS - PH AND ALKALINITY.

PERSONAL AUTHOR: MANCY, K. H.; AND OTHERS

DESCRIPTOR: *ALKALINITY; *CERTIFICATION; *CHEMISTRY *INSTRUCTIONAL MATERIALS; OPERATIONS (WASTEWATER); *PH POLLUTION; POST SECONDARY EDUCATION; *SELF PACE INSTRUCTION; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 255P. COST OF THE 8-UNIT SET (EW001020 EW001027) IS $76.00

ABSTRACT: FOURTH BOOK IN SERIES TO DEAL WITH APPLICATION IN WASTEWATER TREATMENT. SELF-TEACHING MANUAL TO PREPAR INDIVIDUAL FOR MUNICIPAL/STATE CERTIFICATION AS TREATMEN PLANT OPERATOR.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425 ANN ARBOR, MI 48106 ($14.50)

IRIS ACCESSION NUMBER: EW001032

PUBLICATION DATE: 73

TITLE: OZONE IN WATER AND WASTEWATER TREATMENT.

DESCRIPTOR: *DISINFECTION; *INSTRUCTIONAL MATERIALS *OZONE; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT *WATER TREATMENT; ENGINEERING

DESCRIPTIVE NOTE: 195P. 52 FIGURES, 23 TABLES

ABSTRACT: DISCUSSES OZONE -- TECHNOLOGY, STATE OF THE ART IN WATER DISINFECTION; GENERATION AND RELATION T APPLICATION IN WASTEWATER TREATMENT. DEALS WITH PRACTICA ASPECTS OF WATER AND WASTE TREATMENT BY OZONE; OZONE AS WATER AND WASTE WATER DISINFECTANT. OF INTEREST TO SANITAR ENGINEERS FOR PRINCIPLES AND PRACTICE OF MINICIPAL AN INDUSTRIAL WASTE TREATMENT. OF VALUE TO CONSULTIN ENGINEERS FOR ITS DESIGN CONCEPTS AND TO CHEMISTS FOR USE OF OZONE. USEFUL TO EQUIPMENT MANUFACTURERS FOR POSSIBLE NE MARKETS AND IMPROVED TECHNOLOGY.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425 ANN ARBOR, MI 48106 ($15.95)

INSTITUTION NAME: ANN ARBOR SCIENCE PUBLISHERS.

IRIS ACCESSION NUMBER: EW001033

PUBLICATION DATE: 73

TITLE: MATHEMATICS FOR WATER AND WASTEWATER TREATMENT PLAN OPERATORS, BOOK 1: FUNDAMENTAL.

PERSONAL AUTHOR: KIRKPATRICK, JOANNE

DESCRIPTOR: *CALCULATION; CONVERSION TABLES; FLO MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MATHEMATICS *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); POS SECONDARY EDUCATION; PRIMARY TREATMENT; SECONDARY TREATMENT *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; *WATE TREATMENT

DESCRIPTIVE NOTE: 490P. COST OF THE TWO-BOOK SET (EW00103 AND EW001034) IS $20.00

ABSTRACT: ORGANIZED BY SPECIFIC TREATMENT PROCESS T INTRODUCE OPERATORS TO BEGINNING MATHEMETICS ASSOCIATED WIT THAT PROCESS. MODULAR SELF INSTRUCTIONAL APPROACH USED T INTRODUCE OPERATOR TO 'PASSWORDS' OF MATHEMATICS. FOLLOWE BY BOOK 2 (ADVANCED). NUMEROUS ILLUSTRATED EXAMPLES PROBLEMS (AND THEIR SOLUTIONS). INDEX.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425 ANN ARBOR, MI 48106 ($15.00)

IRIS ACCESSION NUMBER: EW001034

PUBLICATION DATE: 73

TITLE: MATHEMATICS FOR WATER AND WASTEWATER TREATMENT PLAN OPERATORS, BOOK 2: ADVANCED.

PERSONAL AUTHOR: KIRKPATRICK, JOANNE

DESCRIPTOR: *CALCULATION; CONVERSION TABLES; FLO MEASUREMENT; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; POS SECONDARY EDUCATION; PRIMARY TREATMENT; SECONDARY TREATMENT *SELF PACED INSTRUCTION; *WASTEWATER TREATMENT; *WATE TREATMENT

DESCRIPTIVE NOTE: 435P. COST OF THE TWO-BOOK SET (EW00103. AND EW001034) IS $20.00

ABSTRACT: ORGANIZED BY SPECIFIC TREATMENT PROCESS T INTRODUCE OPERATOR TO ADVANCED MATHEMATICS ASSOCIATED WIT THAT PROCESS. SEQUEL TO BOOK 1 (BEGINNING). NUMEROU ILLUSTRATED EXAMPLES, PROBLEMS (WITH THEIR SOLUTIONS). INDEX.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, PO BOX 1425 ANN ARBOR, MI 48106 ($15.00)

IRIS ACCESSION NUMBER: EW001035

PUBLICATION DATE: 72

TITLE: WATER QUALITY INSTRUMENTATION, VOLUME 1.

PERSONAL AUTHOR: SCALES, J. W., ED.

DESCRIPTOR: INSTRUCTIONAL MATERIALS; *INSTRUMENTATION *MONITORING; *POST SECONDARY EDUCATION; *SYMPOSIA; *WATE ANALYSIS; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: ORDER NO. HB7

ABSTRACT: SIXTEEN ISA SYMPOSIUM PAPERS ON WATER QUALITY MEASURMENT AND TELEMETRY; INSTRUMENTATION PROCESSES FOR, AND APPLICATIONS AND MONITORING OF WATER POLLUTION CONTROL

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($11.00)

IRIS ACCESSION NUMBER: EW001036

PUBLICATION DATE: 74

TITLE: WATER QUALITY INSTRUMENTATION, VOLUME 2.

PERSONAL AUTHOR: SCALES, J. W., ED.

DESCRIPTOR: INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MONITORING; *POST SECONDARY EDUCATION; SAMPLING; *SYMPOSIA; TURBIDITY; *WATER ANALYSIS; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: ORDER NO. HB 15

ABSTRACT: TWENTY RECENT ISA SYMPOSIA PAPERS ON TOPICS RANGING FROM INDIVIDUAL POLLUTANT MEASUREMENTS AND SAMPLE CONDITIONERS TO WATER QUALITY CONTROL AND DATA ACQUISITION SYSTEMS.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($13.00)

IRIS ACCESSION NUMBER: EW001039

PUBLICATION DATE: 72

TITLE: WATER POLLUTION MICROBIOLOGY.

PERSONAL AUTHOR: MITCHELL, R., ED.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; *MICROBIOLOGY; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 416P.

ABSTRACT: AN UP-TO-DATE TEXT FOR ADVANCED COURSES IN WHICH MODERN MICROBIOLOGICAL CONCEPTS ARE APPLIED TO THE SOLUTION OF PROBLEMS IN WATER POLLUTION CONTROL.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($12.75)

IRIS ACCESSION NUMBER: EW001040

PUBLICATION DATE: 72

TITLE: PHYSIOCHEMICAL PROCESSES FOR WATER QUALITY CONTROL.

PERSONAL AUTHOR: WEBER, W. J., JR.

DESCRIPTOR: *CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TECHNOLOGY; *WASTEWATER TREATMENT; *WATER TREATMENT; *WATER POLLUTION CONTROL; OPERATIONS WASTEWATER; OPERATIONS WATER; POLLUTION; PUBLIC HEALTH; SANITATION; WATER QUALITY

DESCRIPTIVE NOTE: 640P. ORDER NO 0 471 92435-0

ABSTRACT: COMPREHENSIVE TREATISE ON THE PRINCIPLES AND APPLICATIONS OF CHEMICAL AND PHYSICAL-CHEMICAL METHODS OF WATER AND WASTEWATER TREATMENT. EMPHASIZES THE FUNDAMENTALS OF PROCESS DYNAMICS, REACTION DYNAMICS, AND REACTOR SYSTEMS.

AVAILABILITY: JOHN WILEY & SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($26.00).

IRIS ACCESSION NUMBER: EW001041

PUBLICATION DATE: 72

TITLE: ENVIRONMENTAL ENGINEERING AND SANITATION, 2ND ED.

PERSONAL AUTHOR: SALVATO, J. A. JR.

DESCRIPTOR: CONSTRUCTION; *ENGINEERING; ENVIRONMENTAL CONTROL; *ENVIRONMENTAL INFLUENCES; *FACILITIES; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POLLUTION; *POST SECONDARY EDUCATION; RURAL URBAN DIFFERENCES; *SANITATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 919P. ORDER NO 0 471 75077-9

ABSTRACT: EMPHASIZES THE PRACTICAL APPLICATIONS OF SANITARY AND ENGINEERING PRINCIPLES TO ENVIRONMENTAL CONTROL IN URBAN, SUBURBAN, AND RURAL COMMUNITIES. STRESSES THE IMPORTANCE OF CONSIDERING THE EFFECTS THAT NEW CONSTRUCTION, DEMOGRAPHIC CHANGES, AND ALTERATIONS OF NATURAL RESOURCES HAVE ON EACH OTHER.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($30.75)

IRIS ACCESSION NUMBER: EW001042

PUBLICATION DATE: 72

TITLE: SALINITY AND WATER USE.

PERSONAL AUTHOR: TALSMA, T., ED; PHILIP, J. R., ED.

DESCRIPTOR: BIOLOGY; CHEMISTRY; *CONFERENCES; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; *HYDROLOGY; POLLUTION; *SALINITY; SOILS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 396P.

ABSTRACT: PAPERS PRESENTED AT THE SECOND NATIONAL SYMPOSIUM ON HYDROLOGY ORGANIZED BY THE AUSTRALIAN ACADEMY OF SCIENCE. THE PAPERS RANGE WIDELY FROM THE GEOCHEMISTRY, SOIL PHYSICS, HYDRAULICS AND BIOLOGY OF SALINITY TO LEGAL AND ADMINISTRATIVE ASPECTS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($17.95)

IRIS ACCESSION NUMBER: EW001043

PUBLICATION DATE: 58

TITLE: SEWERAGE AND SEWAGE TREATMENT, 8TH ED.

PERSONAL AUTHOR: BABBITT, H. E.; BAUMANN, E. R.

DESCRIPTOR: *ENGINEERING; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; WASTE DISPOSAL; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *SEWAGE

DESCRIPTIVE NOTE: 790P.

ABSTRACT: AN INTRODUCTORY TEXT TO WASTEWATER COLLECTION AND TREATMENT FOR THE ENGINEERING STUDENT.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($29.25)

IRIS ACCESSION NUMBER: EW001044

PUBLICATION DATE: 67

TITLE: SEEPAGE, DRAINAGE AND FLOW NETS.

PERSONAL AUTHOR: CEDERGREN, H. R.

DESCRIPTOR: *DRAINAGE; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; *GROUNDWATER; *INSTRUCTIONAL MATERIALS; *TECHNOLOGY; *WATER POLLUTION CONTROL; POLLUTION

DESCRIPTIVE NOTE: 489P

ABSTRACT: PRESENTS SEEPAGE AND DRAINAGE PRINCIPLES AS PRACTICAL TOOLS FOR SOLVING EVERYDAY PROBLEMS. GIVES MANY ILLUSTRATED EXAMPLES SHOWING HOW ENGINEERING WORKS CAN BE PERMANENTLY PROTECTED FROM THE DAMAGING ACTIONS OF GROUNDWATER AND SEEPAGE.

AVAILABILITY: JOHN WILEY & SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($30.00).

IRIS ACCESSION NUMBER: EW001045

PUBLICATION DATE: 65

TITLE: SEWAGE TREATMENT, 3RD ED.

PERSONAL AUTHOR: IMHOFF, K.; FAIN, G. M.

DESCRIPTOR: *ENGINEERING; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; PUBLIC HEALTH; SANITATION; *SEWERS; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *SEWAGE

DESCRIPTIVE NOTE: 388P.

ABSTRACT: PRESENTS THE REQUIREMENTS AND PRACTICES OF MODERN SEWAGE TREATMENT.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($20.75)

IRIS ACCESSION NUMBER: EW001049

PUBLICATION DATE: 72

TITLE: MATH SHORTCUTS.

PERSONAL AUTHOR: LOCKE, F. M.

DESCRIPTOR: CURRICULUM; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 166P. SELF-TEACHING GUIDE SERIES

ABSTRACT: SHORTCUTS FOR SOLVING MATH PROBLEMS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($2.95)

IRIS ACCESSION NUMBER: EW001051

PUBLICATION DATE: 72

TITLE: BUSINESS STATISTICS.

PERSONAL AUTHOR: KOOSIS, D. J.

DESCRIPTOR: *BUSINESS EDUCATION; CURRICULUM; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *POST SECONDARY EDUCATION; *STATISTICS

DESCRIPTIVE NOTE: 296P. SELF-TEACHING GUIDE SERIES

ABSTRACT: INTRODUCES STUDENTS TO THE BASIC METHODS AND CONCEPTS OF STATISTICS AS IT IS USED TODAY IN BUSINESS AND INDUSTRY. TEACHES HOW TO PERFORM USEFUL STATISTICAL TESTS AND PROCEDURES, AND HOW TO INTERPRET THE RESULTS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($4.95)

IRIS ACCESSION NUMBER: EW001052

PUBLICATION DATE: 72

TITLE: ACCOUNTING ESSENTIALS.

PERSONAL AUTHOR: MARGOLIS, M.; AND OTHERS

DESCRIPTOR: *ACCOUNTING; *BOOKKEEPING; BUSINESS EDUCATION; CURRICULUM; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 308P. SELF TEACHING GUIDE SERIES

ABSTRACT: INTRODUCES THE BASICS OF ACCOUNTING AND BOOKKEEPING. HOW TO JOURNALIZE TRANSACTIONS, POST TO LEDGERS, SUMMARIZE IN PERIODIC FINANCIAL STATEMENTS, AND INTERPRET THE RESULTS. SHOWS HOW TO APPLY THE PROCEDURES TO MERCHANDISE, PAYROLL, AND INVENTORY ACCOUNTING.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($4.95)

IRIS ACCESSION NUMBER: EW001053

PUBLICATION DATE: 73

TITLE: SPELLING FOR ADULTS.

PERSONAL AUTHOR: RYAN, C. W.

DESCRIPTOR: *COMMUNICATIONS; CURRICULUM; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; LANGUAGE ARTS; *POST SECONDARY EDUCATION; *SPELLING

DESCRIPTIVE NOTE: 220P. SELF TEACHING GUIDE SERIES

ABSTRACT: DEVELOPS ABILITY TO FOCUS ON PROBLEM AREAS WITHIN WORDS. TEACHES THROUGH EXAMPLE AND PRACTICE, HOW TO APPLY SOME BASIC RULES TO SOLVE SPELLING DIFFICULTIES.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THRID AVENUE, NEW YORK, NY 10016 ($4.95)

IRIS ACCESSION NUMBER: EW001055

PERSONAL AUTHOR: RYAN, C. W.

DESCRIPTOR: BUSINESS EDUCATION; *COMMUNICATIONS; CURRICULUM; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; LANGUAGE ARTS; *POST SECONDARY EDUCATION; *TECHNICAL WRITING

DESCRIPTIVE NOTE: 256P. SELF TEACHING GUIDE SERIES

ABSTRACT: TEACHES EFFECTIVE TECHNIQUES THROUGH ACTUAL PRACTICE FOR ANYONE WHO WRITES ON TECHNICAL SUBJECTS. COVERS ALL THE PROCEDURES OF TECHNICAL WRITING - FROM RESEARCH AND ORGANIZATION TO THE FINAL PRODUCTION OF A PUBLICATION, STYLE - FORMAT - AND THE APPROACH TO STANDARD TECHNICAL DOCUMENTS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($4.95)

IRIS ACCESSION NUMBER: EW001056

PUBLICATION DATE: 74

TITLE: PRACTICAL ALGEBRA.

PERSONAL AUTHOR: SELBY, P. H.

DESCRIPTOR: *ALGEBRA; CURRICULUM; INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 326P. SELF TEACHING GUIDE SERIES

ABSTRACT: PROVIDES A THOROUGH WORKING KNOWLEDGE OF ALGEBRAIC METHODS. EMPHASIZES TECHNIQUES AND PROBLEM SOLVING. PROVIDES SAMPLE PROBLEMS AND EXAMPLES TO ASSURE LEARNING AT EACH STEP. INCLUDES REVIEW PROBLEMS AND SELF-TESTS. USEFUL AS A REFRESHER OR AS A CONDENSED INTRODUCTION TO ALGEBRA.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THRID AVENUE, NEW YORK, NY 10016 ($4.95)

IRIS ACCESSION NUMBER: EW001059

PUBLICATION DATE: 69

TITLE: TITRATION.

PERSONAL AUTHOR: SLABAUGH, W. H.

DESCRIPTOR: *CHEMISTRY; *FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION; *TITRATION

DESCRIPTIVE NOTE: 8MM, FILM LOOPS, SUPER 8 OR KODAK

ABSTRACT: INTRODUCTION TO THE TECHNIQUES OF ACID BASIC TITRATION INVOLVING THE BURET WITH GLASS STOPCOCK, PIPET BULB, INDICATORS, SAMPLE CALCULATIONS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($32.50)

IRIS ACCESSION NUMBER: EW001060

PUBLICATION DATE: 69

TITLE: THE SARTORIUS BALANCE 2400.

PERSONAL AUTHOR: SLABAUGH, W. H.

DESCRIPTOR: *ANALYTICAL BALANCES; *CHEMISTRY; *EQUIPMENT UTILIZATION; *FILMS; *INSTRUCTIONAL MATERIALS; LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION

DESCRIPTIVE NOTE: 8MM, FILM LOOPS, SUPER 8

ABSTRACT: INSTRUCTIONS FOR OPERATING THE AUTOMATIC ANALYTICAL BALANCE.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($23.75)

IRIS ACCESSION NUMBER: EW001061

PUBLICATION DATE: 69

TITLE: COLORIMETRY - PART I.

PERSONAL AUTHOR: SLABAUGH, W. H.

DESCRIPTOR: *CHEMISTRY; *COLORIMETRY; *EQUIPMENT UTILIZATION; FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION

DESCRIPTIVE NOTE: 8MM, FILM LOOPS, KODAK

ABSTRACT: THEORY WITH BEER'S LAW AND SPECTRONIC 20 COLORIMETER.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($32.50)

IRIS ACCESSION NUMBER: EW001062

PUBLICATION DATE: 69

TITLE: COLORIMETRY - PART II.

PERSONAL AUTHOR: SLABAUGH, W. H.

DESCRIPTOR: *CHEMISTRY; *COLORIMETRY; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION; FILMS

DESCRIPTIVE NOTE: 8MM, FILM LOOPS, SUPER 8 OR KODAK

ABSTRACT: DIRECTIONS FOR COLORIMETRY AND SPECTROPHOTOMETRY WITH SPECTRONIC 20. SUGGESTED EXERCISES.

AVAILABILITY: JOHN WILEY & SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($32.50).

IRIS ACCESSION NUMBER: EW001063

TITLE: THE PH METER.

PERSONAL AUTHOR: SLABAUGH, W. H.

DESCRIPTOR: *CHEMISTRY; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MEASUREMENT; *PH METERS; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION; SCIENCE EQUIPMENT; PH

DESCRIPTIVE NOTE: 8MM, FILM LOOPS, SUPER 8 OR KODAK

ABSTRACT: TECHNIQUES OF OPERATIONS OF BECKMAN 72-CALIBRATION AND MEASURING PH.

AVAILABILITY: JOHN WILEY & SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($23.75).

IRIS ACCESSION NUMBER: EW001064

PUBLICATION DATE: 69

TITLE: ON WRITING EQUATIONS - I.

PERSONAL AUTHOR: SLABAUGH, W. H.

DESCRIPTOR: *CHEMICAL EQUATIONS; *CHEMICAL REACTIONS; FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION

DESCRIPTIVE NOTE: 8MM, FILM LOOPS, SUPER 8 OR KODAK

ABSTRACT: RUDIMENTS OF WRITING EQUATIONS ARE ILLUSTRATED FOR TWO SIMPLE CHEMICAL REACTIONS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($32.50)

IRIS ACCESSION NUMBER: EW001065

PUBLICATION DATE: 69

TITLE: ON WRITING EQUATIONS - II.

PERSONAL AUTHOR: SLABAUGH, W. H.

DESCRIPTOR: *CHEMICAL EQUATIONS; *CHEMICAL REACTIONS; FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION

DESCRIPTIVE NOTE: 8MM, FILM LOOPS, SUPER 8 OR KODAK

ABSTRACT: RUDIMENTS OF WRITING REDOX EQUATIONS ARE SHOWN FOR TWO TYPICAL REDOX EQUATIONS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THRID AVENUE, NEW YORK, NY 10016 ($32.50)

IRIS ACCESSION NUMBER: EW001071

PUBLICATION DATE: 76

TITLE: HOW TO DISPOSE OF TOXIC SUBSTANCES AND INDUSTRIAL WASTES.

PERSONAL AUTHOR: POWERS, P. W.

DESCRIPTOR: *HAZARDOUS MATERIALS; *INDUSTRIAL WASTES; INDUSTRY; INSTRUCTIONAL MATERIALS; *OPERATIONS; POST SECONDARY EDUCATION; *TOXIC WASTES; *WASTE DISPOSAL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 500P. (ISBN 0-8155-0615-5)

ABSTRACT: DISCUSSES ALL RECOGNIZED ULTIMATE DISPOSAL METHODS IN DETAIL AND CONTAINS A LONG LIST OF SPECIFIC RECOMMENDATIONS FOR SPECIFIC SUBSTANCES PLUS ALTERNATIVE DISPOSAL OR RECOVERY METHODS. BASED ON GOVERNMENT-SPONSORED REPORTS, U.S. PATENTS, AND ON PERTINENT ARTICLES IN AUTHORITATIVE JOURNALS.

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656 ($48.00)

IRIS ACCESSION NUMBER: EW001083

PUBLICATION DATE: 70

TITLE: WHERE RIVERS MEET THE SEA.

DESCRIPTOR: *CONSERVATION; *ECOLOGY; *ESTUARIES; *INSTRUCTIONAL MATERIALS; *LAND USE; *OCEANOLOGY; *TIDAL ZONES; *WATER QUALITY; DREDGING; ENVIRONMENT; LAWS; PUBLIC PARTICIPATION; RECREATION; REGULATIONS; WATER RESOURCES

DESCRIPTIVE NOTE: 8P. PUB. NO. 367

ABSTRACT: VALUES OF AND THREATS TO ESTUARINE AREAS--TIDAL STRETCHES OF COASTAL RIVERS AND THEIR TRANSITION ZONES. DESCRIBES BIOLOGICAL, RECREATIONAL AND FLOOD PROTECTION BENEFITS; DANGERS ARISING FROM POLLUTION, DREDGING AND FILLING. PROTECTION REQUIRES CONTROL OF WATER QUALITY, PHYSICAL MODIFICATION AND USE OF ADJACENT LAND. THESE CAN BE ATTAINED BY STATE LEGISLATION, EFFECTIVE ADMINISTRATION, AND NEW PUBLIC POLICY TOWARD ESTUARIES. EXPLAINS CITIZEN'S ROLE IS ESTUARINE PROTECTION.

AVAILABILITY: LEAGUE OF WOMEN VOTERS OF THE U.S. PUBLICATIONS SALES DEPT. 1730 M ST. NW, WASHINGTON, D.C. 20036 ($0.50)

INSTITUTION NAME: LEAGUE OF WOMEN VOTERS OF THE U.S.

IRIS ACCESSION NUMBER: EW001085

ERIC ACCESSION NUMBER: ED086493

PUBLICATION DATE: 73

TITLE: WATER POLLUTION, CAUSES AND CURES.

INSTITUTION CODE: 88805611

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; INDUSTRY; *INSTRUCTIONAL MATERIALS; *POLLUTION; RESOURCE MATERIALS; TECHNOLOGY; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 19P.

ISSUE: RIEMAY74

ABSTRACT: THIS COMMENTARY ON SOURCES OF WATER POLLUTION AND WATER POLLUTION TREATMENT SYSTEMS IS ACCOMPANIED BY GRAPHIC ILLUSTRATIONS. SOURCES OF POLLUTION SUCH AS LAKE BOTTOM VEGETATION, SYNTHETIC ORGANIC POLLUTANTS, HEAT POLLUTION, RADIOACTIVE SUBSTANCE POLLUTION, AND HUMAN AND INDUSTRIAL WASTE PRODUCTS ARE DISCUSSED. SEVERAL TYPES OF WATER PURIFICATION TREATMENTS ARE PRESENTED WITH CUT-AWAY DIAGRAMS OF THE FACILITIES AND TECHNICAL PROCEDURES. (JP)

AVAILABILITY: MANUFACTURING CHEMISTS ASSOCIATION, 1825 CONNECTICUT AVENUE, N. W., WASHINGTON, D. C. 20009 (FREE)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOCIATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW001087

PUBLICATION DATE: 74

TITLE: ENVIROQUIZ.

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION; *TESTS; AIR POLLUTION CONTROL; EFFLUENTS; POST SECONDARY EDUCATION; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 4P

ABSTRACT: PREPARED BY MCA IN COOPERATION WITH THE GENERAL FEDERATION OF WOMEN'S CLUBS AS A GAUGE TO MEASURE ENVIRONMENTAL KNOWLEDGE AND AWARENESS. IT SEEKS TO ELIMINATE SEVERAL COMMON ECOLOGICAL FALLACIES AND COUNTER THEM WITH FACTS BY TESTING THE READER WITH 20 TRUE-FALSE STATEMENTS. ANSWERS ARE INCLUDED ALONG WITH A SUGGESTED READING LIST. BIBLIOGRAPHY.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC. 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 (FREE)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001088

PUBLICATION DATE: SEP 74

TITLE: ECOACTION.

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMICAL INDUSTRY; ECONOMICS; EFFLUENTS; EQUIPMENT (PLANT); *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *NOISE POLLUTION CONTROL; POLLUTION; POST SECONDARY EDUCATION; TRICKLING FILTERS; WASTE DISPOSAL; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 20P.

ABSTRACT: DRAMATIC CASE HISTORIES OF CLEANUP ACTIONS VOLUNTARILY UNDERTAKEN BY CHEMICAL COMPANIES. CONTAINS PHOTOS AND FLOWCHARTS AND DISCUSSES THE TECHNOLOGY IN SOME DETAIL. AIR, WATER, ODOR, SOLID WASTE AND NOISE PROBLEMS ARE COVERED.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 (FREE)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001092

TITLE: WATER AND OUR FUTURE.

DESCRIPTOR: INSTRUCTIONAL MATERIALS; LEGISLATION; *LAWS; *MANAGEMENT; POLICY; POST SECONDARY EDUCATION; *PUBLIC POLICY; *REGULATIONS; WASTEWATER TREATMENT; *WATER QUALITY; WATER RESOURCES

ABSTRACT: DISCUSSES NEED FOR DEVELOPING BROAD GOALS AND OBJECTIVES IN WATER QUALITY MANAGEMENT. ANALYSES FEDERAL, STATE, AND LOCAL ROLES IN IMPLEMENTING WATER QUALITY POLICIES. DESCRIBES THE IMPORTANCE OF PUBLIC INVOLVEMENT IN FORMULATING GOALS. EXPLAINS HOW TO OBTAIN PUBLIC SUPPORT AND FINANCIAL OR TECHNICAL ASSISTANCE FOR WASTEWATER PROJECTS. EXAMINES EIGHT ACTUAL CASES ILLUSTRATING DIFFERENT ASPECTS OF WATER QUALITY MANAGEMENT.

AVAILABILITY: NATIONAL ASSOCIATION OF COUNTIES, 1735 NEW YORK AVENUE NW, WASHINGTON, D.C. 20006 (FREE)

INSTITUTION NAME: NATIONAL ASSOCIATION OF COUNTIES.

IRIS ACCESSION NUMBER: EW001093

PUBLICATION DATE: 77

TITLE: POLLUTION: PROBLEMS AND PROSPECTS.

DESCRIPTOR: *AIR POLLUTION CONTROL; AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 2 SOUND FILMSTRIPS; 14 MIN., COLOR; GRADES 5-12

ABSTRACT: LAND, AIR AND WATER SERVING A GROWING POPULATION - POLLUTION CONTAMINATING THE WORLD IN WHICH PEOPLE LIVE. CAUSES AND EFFECTS OF POLLUTION, UNDERSTANDING NATURAL PROCESSES, WAYS TO MEET HUMAN NEEDS WHILE PROTECTING THE ENVIRONMENT.

AVAILABILITY: NATIONAL GEOGRAPHIC SOCIETY, 17 AND M STREETS, NW, WASHINGTON, D.C. 20036 ($35.00)

INSTITUTION NAME: NATIONAL GEOGRAPHIC SOCIETY.

IRIS ACCESSION NUMBER: EW001094

PUBLICATION DATE: 67

TITLE: THE CHEMISTRY OF INDUSTRIAL WATER TREATMENT.

DESCRIPTOR: *CHEMISTRY; *INDUSTRY; POLLUTION; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY

ABSTRACT: THEORETICAL ASPECTS OF TREATING PROCESS WATER FOR INDUSTRY.

AVAILABILITY: NALCO CHEMICAL COMPANY, 180 NORTH MICHIGAN AVENUE, CHICAGO, IL 60601 (FREE)

INSTITUTION NAME: NALCO CHEMICAL CO.

IRIS ACCESSION NUMBER: EW001096

PUBLICATION DATE: 75

TITLE: THE VANISHING LANDSCAPE: CRITICAL ESSAYS ON POLLUTION.

PERSONAL AUTHOR: DOUGLAS; STEWART

DESCRIPTOR: ECOLOGY; *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL INFLUENCES; NATURAL RESOURCES; *POLLUTION; REFERENCE MATERIALS; *RURAL ENVIRONMENT; *URBAN ENVIRONMENT

ABSTRACT: EFFECT OF MAN ON HIS ENVIRONMENT.

AVAILABILITY: NATIONAL TEXTBOOK COMPANY, 8259 NILES CENTER ROAD, SKOKIE, IL 60076 ($3.00)

IRIS ACCESSION NUMBER: EW001097

PUBLICATION DATE: 73

TITLE: THE ENDLESS SEA.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL MATERIALS; *MARINE POLLUTION; *OCEANOLOGY; *POST SECONDARY EDUCATION; *WATER RESOURCES; ECOLOGY; INSTRUCTIONAL FILMS; MARINE BIOLOGY; POLLUTION

DESCRIPTIVE NOTE: 16MM, 28 MIN. COLOR

ABSTRACT: THIS FILM EXPLORES THE SEA'S PRACTICAL IMPORTANCE FOR THE WORLD'S PEOPLES. PROJECTS OF A CANADIAN RESEARCH SHIP INVOLVING THE CHARTING OF THE SEA'S FLOOR AND THE TRAINING OF MEN TO LIVE UNDERWATER ARE EXAMINED. NEW FISHING TECHNIQUES AROUND THE WORLD ARE INVESTIGATED, AS ARE RECENT ATTEMPTS TO EXTRACT VAST MINERAL RESERVES FROM THE SEA'S WATERS. IT IS INDICATED THAT THE COOPERATION OF MANY SCIENCES IS NECESSARY TO EXPAND MAN'S EVER-INCREASING DEPENDENCE ON THE WATERS THAT SURROUND HIM. FOCUSES ON THE ECOLOGICAL PROBLEMS THAT WILL INCREASINGLY EXIST RELATIVE TO THIS DEPENDENCE.

AVAILABILITY: LEARNING CORP. OF AMERICA, 1350 AVENUE OF THE AMERICAS, NEW YORK, NY 10019 ($30.00 RENTAL)

INSTITUTION NAME: NATIONAL FILM BOARD OF CANADA.

IRIS ACCESSION NUMBER: EW001111

PUBLICATION DATE: 72

TITLE: WATERWORKS MANUAL- BASIC.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *MANUALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *UTILITIES; *WATER DISTRIBUTION; *WATER SUPPLY

DESCRIPTIVE NOTE: 227P.

ABSTRACT: A MANUAL FOR AN OPERATOR WITH SOME EXPERIENCE. MANUAL AIMED AT DISTRIBUTION SYSTEM PERSONNEL. VERY LITTLE ON WATER TREATMENT.

AVAILABILITY: COMMISSION FOR VOCATIONAL EDUCATION, BUILDING 17 - AIRDUSTRIAL PARK, OLYMPIA, WA 99504 ($5.00)

INSTITUTION NAME: COORDINATING COUNCIL FOR OCCUPATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW001112

ERIC ACCESSION NUMBER: ED068677

PUBLICATION DATE: 72

TITLE: WASTE WATER PLANT OPERATORS MANUAL.

INSTITUTION CODE: ZBQ93377

DESCRIPTOR: BIOCHEMISTRY; DISEASE CONTROL; ECOLOGICAL FACTORS; ENVIRONMENTAL TECHNICIANS; EQUIPMENT MAINTENANCE; JOB TRAINING; *MANUALS; *OPERATING ENGINEERING; *SANITATION; TEXTBOOKS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$12.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 259P.

ISSUE: R1EFEB73

ABSTRACT: THIS MANUAL FOR SEWAGE TREATMENT PLANT OPERATORS WAS PREPARED BY A COMMITTEE OF OPERATORS, EDUCATORS, AND ENGINEERS FOR USE AS A REFERENCE TEXT AND HANDBOOK AND TO SERVE AS A TRAINING MANUAL FOR SHORT COURSE AND CERTIFICATION PROGRAMS. SEWAGE TREATMENT PLANT OPERATORS HAVE A RESPONSIBILITY IN WATER QUALITY CONTROL; THEY ARE THE PRINCIPAL ACTORS IN IMPLEMENTING STATE AND FEDERAL STREAM STANDARDS. TREATMENT AS DEFINED IN THIS MANUAL MEANS DISPOSAL OF WASTES CARRIED IN A SEWAGE SYSTEM IN A WAY THAT DOES NOT CREATE A NUISANCE, INTERFERE WITH AQUATIC LIFE, OR HURT THE WATER OR THE ENVIRONMENT. THE MANUAL INCLUDES CHAPTERS ON TREATMENT PLANT OPERATION, COLLECTION OF SEWAGE, SEWER MAINTENANCE, CHARACTERISTICS OF WASTES AND THEIR TREATMENT, TREATMENT AND DISPOSAL COMPONENT OPERATIONS, SAMPLING AND TESTING, AND MATHEMATICAL AND OTHER FUNDAMENTAL INFORMATION NEEDED IN THE WORK. (MF)

INSTITUTION NAME: WASHINGTON STATE COORDINATING COUNCIL FOR OCCUPATIONAL EDUCATION, OLYMPIA.

IRIS ACCESSION NUMBER: EW001113

TITLE: THE COMMUNITY.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGY; *ECOLOGY; *ENVIRONMENT; FILMS; *FOOD CHAIN; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: (NO. 1944) 16MM, 11 MIN., COLOR; PURCHASE PRICE: $135.00; (NO. 1945) 16MM, BLACK & WHITE, 11 MIN.; PURCHASE PRICE: $70.00

ABSTRACT: INTRODUCES THE CONCEPT OF THE ECOLOGICAL COMMUNITY. SHOWS THE COMPLEX NETWORK OF INTERRELATIONSHIPS AMONG A GROUP OF PLANTS AND ANIMALS ADAPTED TO THE SAME GENERAL PHYSICAL CONDITIONS, AND DEMONSTRATES THAT EACH ORGANISM IN A COMMUNITY PLAYS A PARTICULAR ROLE. FOOD CHAINS AND FOOD WEBS OF TYPICAL BIOTIC COMMUNITIES ARE ILLUSTRATED.

AVAILABILITY: ENCYCLOPEDIA BRITANNICA EDUCATION CORP., 425 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($12.00 RENTAL)

INSTITUTION NAME: ENCYCLOPEDIA BRITANNICA EDUCATION CORP.

IRIS ACCESSION NUMBER: EW001114

TITLE: WHAT IS ECOLOGY?

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGY; *ECOLOGY; *ENVIRONMENT; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: (NO. 1916) 16MM, 11 MIN., COLOR; PURCHASE PRICE: $135.00; (NO. 1917) BLACK & WHITE; PURCHASE PRICE: $70.00

ABSTRACT: INTRODUCES THE STUDY OF ECOLOGY BY ILLUSTRATING THE WIDE VARIETY OF INTERRELATIONSHIPS BETWEEN PLANTS, ANIMALS, AND THEIR ENVIRONMENT. SHOWS HOW BIOLOGISTS STUDY THESE INTERRELATIONSHIPS AND EXPLAINS THE IMPORTANCE OF SUCH STUDIES TO MANKIND. THE MAJOR BIOMES OF THE WORLD ARE INTRODUCED.

AVAILABILITY: ENCYCLOPEDIA BRITANNICA EDUCATION CORP., 425 NORTH MICHIGAN AVENUE, CHICAGO, IL ($17.00 RENTAL)

INSTITUTION NAME: ENCYCLOPEDIA BRITANNICA EDUCATION CORP.

IRIS ACCESSION NUMBER: EW001115

TITLE: PROBLEMS OF CONSERVATION: WATER.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSERVATION; DESALINATION; ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; RECYCLING; *WATER DISTRIBUTION; WATER POLLUTION CONTROL; *WATER RESOURCES; WATER REUSE; *CALIFORNIA

DESCRIPTIVE NOTE: (NO. 2794) 16MM, 16 MIN., COLOR; PURCHASE PRICE: $200.00; (NO. 2795) BLACK & WHITE; PURCHASE PRICE: $102.00

ABSTRACT: FOCUSING ON SOME OF SOUTHERN CALIFORNIA'S PROBLEMS, THE FILM SHOWS INNOVATIVE WAYS TO INCREASE WATER SUPPLIES-- PERCOLATION PONDS, DESALINATION OF SALT WATER, ARTIFICIAL WEATHER CONTROL. ALSO POINTS OUT THAT POLLUTION CONTROL IS EQUALLY IMPORTANT IN CONSERVING AND PURIFYING PRESENT WATER SUPPLIES.

AVAILABILITY: ENCYCLOPEDIA BRITANNICA EDUCATION CORP., 425 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($14.00 RENTAL)

INSTITUTION NAME: ENCYCLOPEDIA BRITANNICA EDUCATION CORP.

IRIS ACCESSION NUMBER: EW001117

TITLE: THE WORLD AROUND US.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ECOLOGY; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 672406-9, 16MM, 25 MIN., COLOR

ABSTRACT: REVIEW OF MAN'S EFFECT ON THE ENVIRONMENT.

AVAILABILITY: MCGRAW-HILL CONTEMPORARY FILMS, PRINCETON ROAD, HIGHSTOWN, NJ 08520 ($360.00)

INSTITUTION NAME: NBC NEWS.

IRIS ACCESSION NUMBER: EW001118

TITLE: THE PROBLEM WITH WATER IS PEOPLE.

DESCRIPTOR: *AUDIOVISUAL AIDS; CONSERVATION; *ECOLOGY; *ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POLLUTION; POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *WATER QUALITY; WATER RESOURCES

DESCRIPTIVE NOTE: ORDER NO. 672046-2, 16MM, 30 MIN., COLOR

ABSTRACT: DISCUSSION ON MAN'S EFFECT ON THE ENVIRONMENT.

AVAILABILITY: MCGRAW-HILL CONTEMPORARY FILMS, PRINCETON ROAD, HIGHSTOWN, NJ 08520 ($425.00)

INSTITUTION NAME: NBC NEWS.

IRIS ACCESSION NUMBER: EW001119

TITLE: WATER - OLD PROBLEMS, NEW APPROACHES.

DESCRIPTOR: *AUDIOVISUAL AIDS; ECOLOGY; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: ORDER NO. 657260-9, 16MM, 30 MIN., COLOR

ABSTRACT: REVIEW OF MAN'S EFFECTS ON THE ENVIRONMENT AND HIS ATTEMPTS TO CONTROL POLLUTION.

AVAILABILITY: MCGRAW-HILL CONTEMPORARY FILMS, PRINCETON ROAD, HIGHSTOWN, NJ 08520 ($425.00)

INSTITUTION NAME: MCGRAW-HILL CONTEMPORARY FILMS.

IRIS ACCESSION NUMBER: EW001128

TITLE: YOU'RE COMING ALONG FINE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *EMPLOYEE RELATIONS; *FILMS; *INSTRUCTIONAL FILMS; *JOB ANALYSIS; *MANAGEMENT; *POST SECONDARY EDUCATION; *SUPERVISION; *SUPERVISORS

DESCRIPTIVE NOTE: 16MM, 23 MIN.; SEE EW001229 FOR THE ACCOMPANING MANAGER'S GUIDEBOOK, "PERFORMANCE APPRAISAL: RESONSIBILITY AND OPPORTUNITY"

ABSTRACT: SHOWS THE IMPORTANCE OF ESTABLISHING MUTUALLY SHARED OBJECTIVES AND GIVING HONEST FEEDBACK FOR PROGRESS TOWARD THEIR REALIZATION. SHOWS HOW TO MAKE APPRAISALS VITAL AND USEFUL TOOLS. A CASE STUDY REVEALS HOW MANAGERS CAN GET TRAPPED BETWEEN BOLSTERING AN EMPLOYEE'S EGO AND GIVING ACCURATE JUDGEMENTS TO SUPERIORS. IT PROVIDES MANY INSIGHTS INTO THE APPRAISAL PROCESS BY DRAMATIZING THIS DOUBLE BIND EVERY MANAGER FACES IN LEVELING WITH HIS PEOPLE *ABOUT THEIR WEAKNESSES AND WITH HIGHER MANAGEMENT ABOUT* EMPLOYEES' ACTUAL PERFORMANCE.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 N SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($65.00 RENTAL; $400.00 PURCHASE)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001153

PUBLICATION DATE: 66

TITLE: WATER.

DESCRIPTOR: *ENVIRONMENT; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POST SECONDARY EDUCATION; WASTEWATER TREATMENT; *WATER RESOURCES; *WATER QUALITY

DESCRIPTIVE NOTE: 48P.

ABSTRACT: DISCUSSES: THE WATER PROBLEM, THE WORLD OF WATER, SURFACE WATER, UNDERGROUND WATER, SALT WATER, WATER MANAGEMENT.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($3.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001155

PUBLICATION DATE: 73

TITLE: WATER TREATMENT.

PERSONAL AUTHOR: STRAUSS, S. D.

DESCRIPTOR: CHEMISTRY; *INSTRUCTIONAL MATERIALS; NUCLEAR POWER SYSTEMS; *POST SECONDARY EDUCATION; *STEAM GENERATING SYSTEMS; *WATER ANALYSIS; WATER QUALITY; WATER RESOURCES; *WATER TREATMENT

DESCRIPTIVE NOTE: 40P.

ABSTRACT: DEALS WITH WATER CHEMISTRY AND TREATMENT EQUIPMENT. DISCUSSES TREATMENT PRINCIPLES AND EQUIPMENT AS APPLED TO FEEDWATER AND CONDENSATE FOR STEAM GENERATING SYSTEMS OPERATING OVER ENTIRE SPECTRUM OF STEAM PRESSURES, WITH PARTICULAR ATTENTION TO NUCLEAR POWER SYSTEMS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($4.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001156

PUBLICATION DATE: 70

TITLE: HEAT EXCHANGERS.

DESCRIPTOR: *AIR CONDITIONING; *EQUIPMENT; *HEAT EXCHANGERS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; CLIMATE CONTROL; ENVIRONMENT; HEATING; PLUMBING

DESCRIPTIVE NOTE: 16P

ABSTRACT: UNFIRED SHELL-AND-TUBE HEAT EXCHANGERS FOUND IN STEAM-GENERATION AND CLIMATE-CONTROL SYSTEMS ARE GIVEN INDIVIDUAL ATTENTION. OPERATION, MAINTENANCE, DESIGN, FABRICATION AND MATERIALS SELECTION ARE DISCUSSED FOR BOTH INDUSTRIAL UNITS AND THOSE USED IN CENTRAL GENERATING STATIONS. SECTIONS ON BASIC HEAT-TRANSFER THEORY AND THE PREPARATION OF HEAT-EXCHANGERS SPECIFICATIONS ROUND OUT THE REPORT.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT. 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001157

PUBLICATION DATE: 67

TITLE: WASTEWATER TREATMENT.

PERSONAL AUTHOR: MARKS, R. H.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; WASTE DISPOSAL; WASTEWATER DISPOSAL; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 32P.

ABSTRACT: A GENERAL REVIEW OF WASTEWATER TREATMENT PROCESSES.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001158

PUBLICATION DATE: 56

TITLE: MECHANICAL SEALS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MECHANICAL EQUIPMENT; *MECHANICAL SEALS; *POST SECONDARY EDUCATION; INDUSTRY; MAINTENANCE

ABSTRACT: COMPREHENSIVE REVIEW OF MECHANICAL SEALING OF ROTATING SHAFTS. CONSIDERS SEAL TYPES, HOW THEY WORK, THEIR MATERIAL, FINISH, COOLING SYSTEMS, SELECTION, INSTALLATION AND CARE.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT. 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001159

PUBLICATION DATE: 69

TITLE: MOTORS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MECHANICAL EQUIPMENT; *MOTORS; *POST SECONDARY EDUCATION; INDUSTRY

DESCRIPTIVE NOTE: 32P

ABSTRACT: A COMPREHENSIVE LOOK AT MOTORS. ELECTRICAL AND MECHANICAL FEATURES COMMON TO ALL MOTORS--ENCLOSURES, BEARINGS, INSULATION--ARE CONSIDERED IN DETAIL AND BASIC MATERIALS AND METHODS ARE DISCUSSED.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT. 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001161

PUBLICATION DATE: 69

TITLE: PIPING.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *PIPES; *PLUMBING; *POST SECONDARY EDUCATION; STANDARDS

DESCRIPTIVE NOTE: 24P.

ABSTRACT: A COMPREHENSIVE LOOK AT PIPING SYSTEMS. COVERS BASIC FACTORS IN ENERGY SYSTEM PIPING DESIGN--MATERIALS, CODES, STANDARDS, TESTING, MANUFACTURING METHODS, JOINING METHODS AND FLUID LOSSES. COMMON AND SPECIAL PIPE MATERIALS ARE INCLUDED. NOMOGRAPHS GIVE ACCURATE ESTIMATION OF SYSTEM FLUID LOSSES.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001162

PUBLICATION DATE: 52

TITLE: PISTON RINGS.

DESCRIPTOR: *ENGINES; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; MECHANICAL EQUIPMENT; *PISTON RINGS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 24P.

ABSTRACT: COMPREHENSIVE REVIEW OF PISTON RING MAINTENANCE. TIPS ON INSTALLING, OPERATING, RENEWING RINGS, PLUS MAKING THEM IN EMERGENCIES.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001163

PUBLICATION DATE: 71

TITLE: CONTROL EQUIPMENT: GASES, LIQUIDS, SOLIDS.

DESCRIPTOR: *AIR POLLUTION CONTROL; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; *REGULATIONS; *WATER POLLUTION CONTROL; ENVIRONMENT; LAWS; WASTE DISPOSAL; WASTEWATER TREATMENT; WATER ANALYSIS

DESCRIPTIVE NOTE: 32P

ABSTRACT: AN ANALYSIS OF THE PROBLEM AND REGULATIONS; EQUIPMENT AVAILABLE TO MEET THE REQUIREMENTS AND HOW THAT EQUIPMENT CAN BE DESIGNED INTO A SYSTEM; AND THE IMPACT OF CHANGING PROCESSES AND REGULATIONS ON EQUIPMENT BUYING PRACTICE.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT. 1221 AVENUE OF

THE AMERICAS, NEW YORK, NY 10020 ($3.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001164

PUBLICATION DATE: 61

TITLE: PROTECTIVE RELAYING.

DESCRIPTOR: *ELECTRICAL RELAYS; *ELECTRICAL SYSTEMS; ELECTRONICS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION; *UTILITIES

ABSTRACT: COMPREHENSIVE REVIEW OF PROTECTIVE RELAYING IN THE USE OF ELECTRICAL POWER. EACH TYPE OF PROTECTIVE FUNCTION IS DISCUSSED, AND TYPE OF RELAY TO USE IS INDICATED. RELAY CIRCUITS FOR SIMPLE ELECTRIC SYSTEMS ARE TREATED, AS WELL AS FAIRLY COMPLICATED SYSTEMS. TIPS ON MAINTENANCE AND TESTING ARE GIVEN.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001165

PUBLICATION DATE: 71

TITLE: VALVES.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *VALVES; INDUSTRY; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 116P

ABSTRACT: A COMPREHENSIVE REVIEW OF VALVES. COVERS VALVES, ACTUATORS, POSITIONERS, AND THEIR APPLICATION TO PROBLEMS OF FLUID HANDLING AND CONTROL. TRENDS IN SPECIFIC APPLICATIONS, SUCH AS HIGH-PRESSURE DROP, LOW-NOISE, AUTOMATION, ARE ILLUSTRATED AND DESCRIBED.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT. 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001166

PUBLICATION DATE: 60

TITLE: VIBRATION ISOLATION.

DESCRIPTOR: *DESIGN; ENVIRONMENT; *EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16P.

ABSTRACT: SHOWS HOW TO ISOLATE EQUIPMENT SO THAT ITS VIBRATION DOES NOT HARM OTHER EQUIPMENT--SO THAT OUTSIDE VIBRATION IS KEPT FROM DAMAGING ELECTRONIC AND LABORATORY EQUIPMENT, HARMING BUILDING STRUCTURES AND THE MACHINE ITSELF.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($1.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001205

TITLE: PATTERN FOR INSTRUCTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; JOB INSTRUCTION; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION; *TRAINING

DESCRIPTIVE NOTE: 16MM, 21 MIN., COLOR; MANAGER'S GUIDEBOOK "JOB INSTRUCTION: THE COMMUNICATION OF ABILITY" (EW001207) RECOMMENDED

ABSTRACT: RELATES THE BASIC STEPS IN JOB INSTRUCTION TRAINING TO THE PRINCIPLES OF LEARNING. ENCOURAGES A MORE POSITIVE ATTITUDE TOWARD THE SUPERVISOR'S TRAINING JOB.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($65.00)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001207

TITLE: JOB INSTRUCTION: THE COMMUNICATION OF ABILITY.

DESCRIPTOR: AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; *JOB INSTRUCTION; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION; *TRAINING

DESCRIPTIVE NOTE: 23P. COMPANION FILM: "PATTERN FOR INSTRUCTION" (EW001205)

ABSTRACT: PRESENTS THE FUNDAMENTALS OF JOB INSTRUCTION AND TRAINING FROM THE POINT OF VIEW OF BOTH THE LEARNER AND THE INSTRUCTOR. THE FOUR STEP METHOD DESCRIBED WILL GUIDE SUPERVISORS IN TEACHING BOTH NEW AND EXPERIENCED EMPLOYEES IN ANY JOB SITUATION. TEXT DETAILS HOW TO PREPARE TO INSTRUCT, HOW TO PRESENT THE JOB, HOW TO DEVELOP SKILLS BY LETTING PEOPLE ATTEMPT NEW TASKS AND THE PROPER WAY TO FOLLOW-UP, PROVIDE ENCOURAGEMENT AND ANSWER QUESTIONS.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($10 FOR $20.00)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001209

TITLE: PROBLEM SOLVING: A CASE STUDY.

DESCRIPTOR: AUDIOVISUAL AIDS; *CASE STUDIES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PROBLEM SOLVING; *QUALITY CONTROL

DESCRIPTIVE NOTE: 16MM, 22 MIN., COLOR; COMPANION FILM: "PROBLEM SOLVING: SOME BASIC PRINCIPLES" (EW001210)

ABSTRACT: ENABLES THE TRAINER TO COMPLETELY INVOLVE THE AUDIENCE IN THE PROBLEM SOLVING PROCESS. TO LOCATE AND CORRECT A QUALITY CONTROL PROBLEM.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($50.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001210

TITLE: PROBLEM SOLVING: SOME BASIC PRINCIPLES.

DESCRIPTOR: AUDIOVISUAL AIDS; *DECISION MAKING; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16MM, 18 MIN., COLOR; COMPANION FILM: "PROBLEM SOLVING A CASE STUDY" (EW001209)

ABSTRACT: PRESENTS MANAGERS WITH A SYSTEMATIC APPROACH TO PROBLEM SOLVING AND DECISION MAKING.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($50.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001212

TITLE: STYLES OF LEADERSHIP.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, 26 MIN., COLOR; FOR COMPANION GAME SEE EW001867

ABSTRACT: DESIGNED TO AID THE INSTRUCTOR WHO HAS BEEN TRYING TO STIMULATE NEW INSIGHTS INTO THE VARIOUS WAYS MANAGERS EXERCISE THEIR AUTHORITY. HELPS VIEWERS TO INCREASE THEIR FLEXIBILITY IN GETTING ALONG PRODUCTIVELY WITH ALL TYPES OF BOSSES.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($60.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001221

TITLE: THE WAY I SEE IT.

DESCRIPTOR: AUDIOVISUAL AIDS; *COMMUNICATIONS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, 23 MIN., COLOR; MANAGER'S GUIDEBOOK "GETTING YOUR SIGNALS STRAIGHT" (EW001222) RECOMMENDED

ABSTRACT: SHOWS WHAT CAN HAPPEN WHEN GOALS ARE NOT SET, OBJECTIVES CLEARLY DEFINED, AND REVIEW POINTS ESTABLISHED. STIMULATES DISCUSSION AND UNDERSTANDING OF PERCEPTUAL DIFFERENCES AND THEIR EFFECTS. ATTACKS THE PROBLEMS BEHIND JOB ASSIGNMENTS THAT FAIL, GOALS THAT ARE NEVER REACHED, AND WORK RELATIONSHIPS THAT DETERIORATE.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($60.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001222

TITLE: GETTING YOUR SIGNALS STRAIGHT.

DESCRIPTOR: AUDIOVISUAL AIDS; *COMMUNICATIONS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 15P. COMPANION FILM: "THE WAY I SEE IT" (EW001221)

ABSTRACT: HELPS CLEAR UP FALSE ASSUMPTIONS AND PREVENT MISUNDERSTANDINGS IN DAY-TO-DAY COMMUNICATIONS. SHOWS THAT BY EXAMINING WHAT IS SAID AS WELL AS WHAT IS INDICATED SILENTLY BY GESTURE AND FACIAL EXPRESSION, THE MANAGER CAN GET MORE ACCURATE INPUT FROM OTHERS AS TO HOW HE REALLY COMES ACROSS. HE CAN LEARN TO AVOID MISINTER- PRETING THE ACTIONS AND INTENTIONS OF OTHERS.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 (10 FOR $25.00)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001223

TITLE: WELCOME ABOARD.

DESCRIPTOR: AUDIOVISUAL AIDS; *COMMUNICATIONS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, 21 MIN., COLOR; FOR COMPANION LEARNING MATERIALS PACKAGE SEE EW001224

ABSTRACT: HELPS START A PROGRAM AMONG FIRST-LINE SUPERVISORS THAT WILL AID THEM IN GETTING THEIR NEW EMPLOYEES, AND RECENT TRANSFERS, OFF TO A GOOD START, HELP THEM ACHIEVE MAXIMUM PRODUCTIVITY FASTER, AND CUT EXCESSIVE EMPLOYEE TURNOVER. IT STIMULATES VIEWERS TO ASSESS THEIR OWN ROLES AND RESPONSIBILITIES IN HELPING NEW PEOPLE TO BECOME ORIENTED QUICKLY, EASILY, PRODUCTIVELY.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($65.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001224

TITLE: WELCOME ABOARD: LEARNING MATERIALS PACKAGE.

DESCRIPTOR: AUDIOVISUAL AIDS; *COMMUNICATIONS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION; *TRAINING

DESCRIPTIVE NOTE: INCLUDES ONE SESSION PLANNER, 50 STUDY GUIDES, AND ONE POSTER. COMPANION FILM: "WELCOME ABOARD" (EW001223)

ABSTRACT: LEARNING AIDS TO HELP MAKE TRAINING SESSIONS MORE EFFECTIVE, MORE ENJOYABLE, AND EASIER.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($20.00)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001225

TITLE: THE WILL TO WORK.

DESCRIPTOR: AUDIOVISUAL AIDS; *COMMUNICATIONS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; MOTIVATION; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, 30 MIN., COLOR

ABSTRACT: DEMONSTRATES THE QUALITIES NEEDED TO ACHIEVE MOTIVATION OF THE INDIVIDUAL AND THE WORKING GROUP. SUPERVISOR'S RESPONSIBILITIES FOR MORALE INCLUDE: CONCERN FOR THE INDIVIDUAL, CONCERN FOR THE GROUP, FAIR DISCIPLINE, SELF CONTROL, IMPARTIALITY, APPROACHABILITY, LOYALTY AND SETTING A GOOD EXAMPLE.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($60.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001229

TITLE: PERFORMANCE APPRAISAL: RESPONSIBILITY AND OPPORTUNITY.

DESCRIPTOR: *EMPLOYEE RELATIONS; *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; *MANAGEMENT; *POST SECONDARY EDUCATION; *SUPERVISION; *SUPERVISORS

DESCRIPTIVE NOTE: 27P. SEE EW001128 FOR COMPANION FILM, "YOU'RE COMING ALONG FINE"

ABSTRACT: SIX DETAILED STEPS TO EFFECTIVE PERFORMANCE APPRAISAL ASSISTS IN PROVIDING FEEDBACK FOR SUBORDINATES AND IN EVALUATING AND REACHING POTENTIALS. PROVIDES A NEEDED IMPETUS FOR IMPROVING SKILLS IN THE MANAGEMENT AREA.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 N SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($2.50)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001242

PUBLICATION DATE: 71

TITLE: MANUAL FOR ACTIVATED SLUDGE SEWAGE TREATMENT.

PERSONAL AUTHOR: GOODMAN, B. L.

DESCRIPTOR: *ACTIVATED SLUDGE; ENVIRONMENTAL TECHNICIANS; INSERVICE EDUCATION; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 204P.

ABSTRACT: STEP BY STEP EXPLANATION OF THE PROCESS, FROM BASICS TO FINE POINTS OF ADVANCED WASTEWATER TREATMENT METHODS.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($15.00)

IRIS ACCESSION NUMBER: EW001244

ERIC ACCESSION NUMBER: ED123592

PUBLICATION DATE: 73

TITLE: WATER FACTS AND FIGURES FOR PLANNERS AND MANAGERS. GEOLOGICAL SURVEY CIRCULAR 601-1.

PERSONAL AUTHOR: FETH, J. H.

INSTITUTION CODE: BBB05243

DESCRIPTOR: ECOLOGICAL FACTORS; *ENVIRONMENTAL EDUCATION; GEOLOGY; INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *NATURAL RESOURCES; *SCIENTIFIC CONCEPTS; SCIENTIFIC PRINCIPLES; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE

DESCRIPTIVE NOTE: 37P.

ISSUE: RIESEP76

ABSTRACT: THIS BOOKLET PRESENTS THE LANGUAGE USED IN DEALING WITH WATER. THE BOOKLET IS INTENDED TO PROVIDE DECISION-MAKERS WITH AN ADEQUATE BASE OF INFORMATION TO ANALYZE WATER SOURCES FOR CONSUMPTION, RECREATION, AND INDUSTRY. THE FIRST SECTION DEFINES WATER AND ITS PROPERTIES, GEOLOGIC LOCATIONS, DOMESTIC AND INDUSTRIAL USES, AND PATTERNS OF CHANGE. THE SECOND SECTION DISCUSSES WATER-QUANTITY TERMS IN METRIC-ENGLISH EQUIVALENTS. WATER-QUALITY TERMS SUCH AS TEMPERATURE, SPECIFIC ELECTRICAL CONDUCTANCE, PH, SEDIMENT, COLIFORM COUNT, AND DISSOLVED OXYGEN ARE PRESENTED IN SECTION 3. THE FINAL SECTION CONTAINS A GLOSSARY OF TECHNICAL TERMS. THE MAIN EMPHASIS IS ON TERMINOLOGY AND EQUIVALENTS WITH SOME DISCUSSION OF THEORY. (MR)

AVAILABILITY: U.S. GEOLOGICAL SURVEY, NATIONAL CENTER, RESTON, VIRGINIA 22092 (FREE)

INSTITUTION NAME: GEOLOGICAL SURVEY (DEPT. OF INTERIOR), RESTON, VA.

IRIS ACCESSION NUMBER: EW001247

TITLE: LABORATORY TEXTBOOK AND EXERCISES IN MICROBIOLOGY, 2ND EDITION.

PERSONAL AUTHOR: BARTHOLOMEW, J. W.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *MICROBIOLOGY; *TEXTBOOKS

ABSTRACT: INSTRUCTIONAL MATERIALS FOR COURSE IN MICROBIOLOGICAL TECHNIQUES.

AVAILABILITY: WM. C. BROWN CO., PUBLISHERS, 2460 KERPER BLVD., DUBUQUE, IA 52001 ($6.95)

IRIS ACCESSION NUMBER: EW001248

TITLE: HOW TO KNOW THE FRESHWATER ALGAE, 3RD EDITION.

PERSONAL AUTHOR: PRESCOTT, G. W.

DESCRIPTOR: *ALGAE; ANALYTICAL TECHNIQUES; *AQUATIC PLANTS; *INSTRUCTIONAL MATERIALS; *MIRCOBIOLOGY; POST SECONDARY EDUCATION; *WATER ANALYSIS; *WATER SUPPLY

ABSTRACT: PROCEDURES FOR IDENTIFYING ALGAE OF INTEREST IN WATER SUPPLY.

AVAILABILITY: WM. C. BROWN CO., PUBLISHERS, 2460 KERPER BLVD., DUBUQUE, IA 52001 ($6.95)

IRIS ACCESSION NUMBER: EW001249

TITLE: HOW TO KNOW THE AQUATIC PLANTS.

PERSONAL AUTHOR: PRESCOTT, G. W.

DESCRIPTOR: *ALGAE; ANALYTICAL TECHNIQUES; *AQUATIC PLANTS; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; POST SECONDARY EDUCATION; *WATER ANALYSIS; *WATER SUPPLY

ABSTRACT: IDENTIFICATION PROCEDURES FOR AQUATIC PLANTS.

AVAILABILITY: WM. C. BROWN CO., PUBLISHERS, 2460 KERPER BLVD., DUBUQUE, IA 52001 ($5.95)

IRIS ACCESSION NUMBER: EW001256

PUBLICATION DATE: 78

TITLE: WATER TREATMENT FUNDAMENTALS.

DESCRIPTOR: ENVIRONMENTAL TECHNICIANS; *INDEPENDENT STUDY; *INSTRUCTIONAL MATERIALS; LEARNING MODULES; *MANUALS; *POST SECONDARY EDUCATION; *PROGRAMED INSTRUCTION; WATER POLLUTION CONTROL; *WATER TREATMENT

ABSTRACT: PROGRAMMED INSTRUCTION WITH BASICS OF WATER TREATMENT FUNDAMENTALS.

AVAILABILITY: WATER QUALITY ASSOCIATION, 477 EAST BUTTERFIELD ROAD, LOMBARD, IL 60148 ($50.00 FOR MEMBERS AND $75.00 FOR NON-MEMBERS)

INSTITUTION NAME: ILLINOIS WATER QUALITY ASSOCIATION.

IRIS ACCESSION NUMBER: EW001258

PUBLICATION DATE: 71

TITLE: ELEMENTARY SOIL AND WATER ENGINEERING (2ND ED.).

PERSONAL AUTHOR: SCHWAB, G. O.; AND OTHERS

DESCRIPTOR: BOOKS; *ENGINEERING; ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; *SOIL SCIENCE; *TEXTBOOKS; WASTEWATER TREATMENT; WATER POLLUTION CONTROL; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 316P.

ABSTRACT: AN INTRODUCTORY TEXT TO SOIL AND WATER RELATIONSHIPS.

AVAILABILITY: JOHN WILEY AND SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($16.50)

IRIS ACCESSION NUMBER: EW001260

PUBLICATION DATE: 74

TITLE: ADVANCED WASTEWATER TREATMENT SEMINAR MANUAL.

PERSONAL AUTHOR: CULP, G. L.; AND OTHERS

DESCRIPTOR: ANAEROBIC DIGESTION; BIOLOGICAL TREATMENT; CHLORINATION; COAGULATION; FILTRATION; *INSTRUCTIONAL MATERIALS; LAND DISPOSAL; *MANUALS; NUTRIENT REMOVAL; *OPERATIONS (WASTEWATER); *SECONDARY TREATMENT; SLUDGE; *TERTIARY TREATMENT; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 300P. YEARLY PUBLICATION; SET OF SEVEN AVAILABLE FOR $50.00

ABSTRACT: PROVIDES A REVIEW OF THE CURRENT STATUS OF THE WASTEWATER TREATMENT FIELD WITH EMPHASIS ON NEW, PRACTICAL DEVELOPMENTS OF VALUE TO A PRACTICING ENGINEER. RESEARCH AND PLANT-SCALE RESULTS ARE PRESENTED FOR MANY PROCESSES, BOTH SECONDARY AND TERTIARY.

AVAILABILITY: CULP, WESNER, CULP, BOX 40, ELDORADO HILLS, CA 95631 ($29.50)

IRIS ACCESSION NUMBER: EW001271

ERIC ACCESSION NUMBER: ED084149

PUBLICATION DATE: JUN 73

TITLE: A DROP TO DRINK. . .A REPORT ON THE QUALITY OF OUR DRINKING WATER.

PERSONAL AUTHOR: TAIT, JACK

INSTITUTION CODE: BBB06039

DESCRIPTOR: ACTION PROGRAMS (COMMUNITY); *CITIZENSHIP RESPONSIBILITY; *ECOLOGY; ENVIRONMENTAL INFLUENCES; NATURAL RESOURCES; *STATE OF THE ART REVIEWS; WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER SUPPLY

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 16P.

ISSUE: RIEMAR74

ABSTRACT: BASIC INFORMATION ABOUT THE QUALITY OF OUR NATION'S DRINKING WATER IS CONTAINED IN THIS BROCHURE. WRITTEN FOR THE GENERAL PUBLIC TO FAMILIARIZE THEM WITH THE SITUATION, IT WILL ALSO HELP THEM EVALUATE THE STATE OF THE NATION'S DRINKING WATER AS WELL AS THAT OF THEIR OWN COMMUNITIES. THE NEED TO ASSURE RELIABLE SOURCES OF HEALTHFUL DRINKING WATER FOR PRESENT NEEDS AND FUTURE GROWTH IS DISCUSSED TOGETHER WITH A FEW OF THE STANDARDS ALREADY ESTABLISHED, AREAS WHERE IMPROVEMENT IS NEEDED, WATER TREATMENT PROCESSES PRESENTLY IN USE, AND THE TOPICS AND DIRECTIONS OF THE ENVIRONMENTAL PROTECTION AGENCY'S WATER HYGIENE RESEARCH. IT CONCLUDES THAT WHILE EFFORTS AT ALL LEVELS OF GOVERNMENT ARE NEEDED, THE ULTIMATE SUCCESS OF THESE EFFORTS WILL BE DETERMINED BY THE DEGREE OF CONCERN AND VIGILANCE OF HOMETOWN AMERICANS ACROSS THE COUNTRY. IDEAS FOR BECOMING INFORMED AND INVOLVED CITIZENS ARE INCLUDED. (BL)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW001275

ERIC ACCESSION NUMBER: ED100641

PUBLICATION DATE: MAY 73

TITLE: HEALTH EFFECTS OF ENVIRONMENTAL POLLUTION.

INSTITUTION CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; ATTITUDES; CONSERVATION EDUCATION; ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; PESTICIDES; *POLLUTION; *PUBLIC HEALTH; SCIENCE EDUCATION; VALUES; *WASTES; WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.58 PLUS POSTAGE

DESCRIPTIVE NOTE: 24P.

ISSUE: RIEMAY75

ABSTRACT: THIS BOOKLET NOTES THAT FOR A LONG TIME THE AMERICAN PEOPLE WERE WILLING TO PAY ANY PRICE FOR PROGRESS. NOW MAY REFUSE TO ACCEPT AN ENVIRONMENT THAT MENACES THEIR HEALTH AND LOWERS THEIR ENJOYMENT OF LIFE. THEY ARE EMBRACING A NEW ENVIRONMENTAL CONSCIOUSNESS, A BROADER VISION OF REALITY, A MORE PROFOUND SENSE OF THEIR PLACE IN NATURE. AMONG THE TOPICS DISCUSSED ARE THE HEALTH EFFECTS OF ENVIRONMENTAL POLLUTION, NOISE, WATER POLLUTION, SOLID WASTES, AIR POLLUTION AND ITS CHRONIC EFFECTS, ODORS, PESTICIDES, RADIATION, CARCINOGENS, TERATOGENS, AND MUTAGENS. THE DECADE OF THE 70'S IS SHOWING THAT A NEW ENVIRONMENTAL ETHIC DOES EXIST IN THE HEARTS AND MINDS OF THE AMERICAN PEOPLE AND IT IS THE MATCHLESS OPPORTUNITY OF THIS GENERATION TO BEGIN THE RESTORATION OF ENVIRONMENTAL QUALITY AND THE PROTECTION OF HEALTH. (BT)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($0.30)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW001276

ERIC ACCESSION NUMBER: ED104637

PUBLICATION DATE: MAR 73

TITLE: ACTION FOR ENVIRONMENTAL QUALITY. STANDARDS AND ENFORCEMENT FOR AIR AND WATER POLLUTION CONTROL.

INSTITUTION CODE: BBB06039

DESCRIPTOR: *AIR POLLUTION CONTROL; CONSERVATION (ENVIRONMENT); ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; *RESOURCE MATERIALS; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; *ENVIRONMENTAL PROTECTION AGENCY; EPA; *STANDARDS

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$3.32 PLUS POSTAGE

DESCRIPTIVE NOTE: 57P.; OCCASIONAL MARGINAL LEGIBILITY DUE TO COLOR PHOTOGRAPHS

ISSUE: RIEAUG75

ABSTRACT: THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) IS RESPONSIBLE FOR SETTING AND ENFORCING ENVIRONMENTAL QUALITY STANDARDS FOR THE NATION. WITH THE CLEAN AIR ACT OF 1970 (P.L. 91-604) AND THE WATER POLLUTION CONTROL ACT OF 1972 (P.L. 92-500), THE FIRST TRULY NATIONWIDE CONTROL PROGRAMS WERE ESTABLISHED. THIS BOOKLET IS DESIGNED TO INFORM THE PUBLIC OF THE WORK BEING DONE BY THE EPA IN THE AREAS OF WATER AND AIR POLLUTION, OF THE STANDARDS ESTABLISHED THROUGH MUCH RESEARCH AND TESTING, AND OF THE ENFORCEMENT POLICIES AND LEGISLATION NOW IN EFFECT. TERMS ARE DEFINED AND GUIDELINES FOR CITIZEN ACTION IN ENVIRONMENTAL CONCERNS ARE INCLUDED. (MA)

REPORT NUMBER: EPA-335

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NO. 5500-00087, $0.75, DOMESTIC POSTPAID; $0.65, GPO BOOKSTORE)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW001302

ERIC ACCESSION NUMBER: ED053922

PUBLICATION DATE: JUN 70

TITLE: CLEAN WATER FOR THE 1970'S, A STATUS REPORT.

INSTITUTION CODE: BBB04371

DESCRIPTOR: *ENVIRONMENT; *FEDERAL LEGISLATION; *FEDERAL PROGRAMS; NATURAL RESOURCES; *POLLUTION; PROGRAM DESCRIPTIONS; RESOURCE MATERIALS; *WATER POLLUTION CONTROL; WATER RESOURCES; FEDERAL WATER QUALITY ADMINISTRATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$4.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 91P.

ISSUE: RIEDEC71

ABSTRACT: THIS REPORT DESCRIBES THE PAST ACTIVITIES AND FUTURE PLANS OF THE FEDERAL WATER QUALITY ADMINISTRATION (FWQA). THE FIRST OF THE FOUR SECTIONS IN THE REPORT PROVIDES GENERAL DISCUSSION ABOUT THESE FORMS OF WATER POLLUTION: MUNICIPAL WASTES, INDUSTRIAL WASTES, THERMAL POLLUTION, OIL AND HAZARDOUS SUBSTANCES, MINE DRAINAGE, SEDIMENTATION AND EROSION, FEED LOT POLLUTION AND OTHER AGRICULTURAL WASTE, AND WASTE FROM WATERCRAFT. THE SECOND SECTION, A WATER POLLUTION CONTROL PROGRAM FOR THE 1970'S, CONSIDERS LEGISLATION AND PROGRAMS TO IMPROVE FINANCING OF MUNICIPAL TREATMENT, STANDARDS AND ENFORCEMENT, ASSISTANCE TO THE STATES, AND OTHER FEDERAL ACTIVITIES. THE NEXT SECTION, PROGRAMS FOR WATER POLLUTION CONTROL, CONSTITUTES THE MAJOR PORTION OF THE REPORT, AND CONSIDERS PAST AND PRESENT PROGRAMS AND ISSUES: REGULATORY PROGRAMS; ASSISTANCE PROGRAMS; PLANNING AND BASIC STUDIES; RESEARCH, DEVELOPMENT, AND DEMONSTRATION PROGRAMS; THE HUMAN ELEMENT; AND INTERNATIONAL ACTIVITIES. THE FINAL SECTION REVIEWS THE ORGANIZATION, PERSONNEL, FACILITIES, AND BUDGETARY RESOURCES OF THE FWQA. INCLUDED ARE MANY ILLUSTRATIONS AND PHOTOGRAPHS. (PR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($1.50)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. FEDERAL WATER QUALITY ADMINISTRATION.

IRIS ACCESSION NUMBER: EW001321

TITLE: CHEMISTRY LEARNERS, VOLUME 1.

PERSONAL AUTHOR: ALLEN, J. F.

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION

ABSTRACT: MODULES ON BASIC CHEMISTRY.

AVAILABILITY: BURGESS PUBLISHING CO., 7108 OHMS LANE, MINNEAPOLIS, MN 55435 ($9.95)

IRIS ACCESSION NUMBER: EW001322

TITLE: CHEMISTRY LEARNERS, VOLUME 2.

PERSONAL AUTHOR: ALLEN, J. F.

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION

ABSTRACT: MODULES ON BASIC CHEMISTRY.

AVAILABILITY: BURGESS PUBLISHING CO., 1708 OHMS LANE, MINNEAPOLIS, MN 55435 ($9.95)

IRIS ACCESSION NUMBER: EW001340

TITLE: MAINTENANCE ENGINEERING HANDBOOK, 2ND ED.

PERSONAL AUTHOR: HIGGENS; AND OTHERS

DESCRIPTOR: *ELECTRICAL EQUIPMENT; *EQUIPMENT; *INDUSTRY; INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MANUALS; OPERATIONS; POST SECONDARY EDUCATION

ABSTRACT: PROCEDURES FOR CARRYING OUT ALL TYPES OF MAINTENANCE PROCEDURES FOR ELECTRICAL AND MECHANICAL EQUIPMENT.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($42.50)

IRIS ACCESSION NUMBER: EW001342

TITLE: SAFETY EDUCATION DATA SHEET #23 - LABORATORY GLASSWARE.

DESCRIPTOR: *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY GLASSWARE; OPERATIONS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 4P. (STOCK NO. 429.04-23)

ABSTRACT: GENERAL REVIEW OF LABORATORY SAFETY.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.27)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW001382

ERIC ACCESSION NUMBER: ED120564

PUBLICATION DATE: SEP 73

TITLE: GUIDELINES TO CAREER DEVELOPMENT FOR WASTEWATER TREATMENT PLANT PERSONNEL.

INSTITUTION CODE: BBB12382

DESCRIPTOR: COURSE CONTENT; COURSE DESCRIPTIONS; *ENVIRONMENTAL TECHNICIANS; GUIDELINES; *JOB TRAINING; OCCUPATIONAL INFORMATION; *OPERATING ENGINEERING; PERFORMANCE SPECIFICATIONS; STAFF IMPROVEMENT; TRAINING TECHNIQUES; VOCATIONAL DEVELOPMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE

DESCRIPTIVE NOTE: 106P.; PREPARED BY THE PUBLIC SERVICE CAREERS SECTION

ISSUE: RIEAUG76

ABSTRACT: THE GUIDELINES WERE WRITTEN TO PROMOTE JOB GROWTH AND IMPROVEMENT IN THE PERSONNEL WHO MANAGE, OPERATE, AND MAINTAIN WASTEWATER TREATMENT PLANTS. TRAINED OPERATORS AND TECHNICIANS ARE THE KEY COMPONENTS IN ANY WATER POLLUTION CONTROL FACILITY. THE APPROACH IS TO MOVE FROM EMPLOYMENT TO TRAINING THROUGH SPECIFIC MODULES FOR 21 STANDARD JOB CLASSIFICATIONS OF POSITIONS IN WASTEWATER TREATMENT PLANTS. RELATED OCCUPATIONAL SUMMARIES SHOW THE SPECIFICATIONS FOR EACH JOB, THE JOB DESCRIPTION, BASIC QUALIFICATIONS, ADDITIONAL TRAINING NEEDED, SOURCES OF TRAINING, AND ENTRY AND ADVANCEMENT INFORMATION. THE TRAINING MODULES COVER 46 COURSES OF INSTRUCTION TO BE INCLUDED IN EACH TRAINING PROGRAM. EACH MODULE HAS STATEMENT OF PURPOSE, CONTENT, TOPICS, AND EFFECTIVE TRAINING PROCEDURES. THE MODULES MAY PROVIDE THE BASIS FOR THE DEVELOPMENT OF A TRAINING PROGRAM MANUAL FOR WASTEWATER TREATMENT PLANT WORKERS. A BRIEF FINAL SECTION OUTLINES A TRAINING PLAN AND INCLUDES A FOLD-OUT PLANNING GRID FOR USE IN GUIDING THE CAREER DEVELOPMENT AND TRAINING OF WASTEWATER TREATMENT PLANT PERSONNEL. (AUTHOR/MF)

REPORT NUMBER: VT-102-653

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF EDUCATION AND MANPOWER PLANNING.

IRIS ACCESSION NUMBER: EW001387

PUBLICATION DATE: OCT 73

TITLE: MAINTENANCE MANAGEMENT SYSTEMS FOR MUNICIPAL WASTEWATER FACILITIES.

DESCRIPTOR: BUDGETING; COST EFFECTIVENESS; ENVIRONMENT; *GUIDELINES; MAINTENANCE; *MANAGEMENT SYSTEMS; PERSONNEL; *POLLUTION; PUBLIC HEALTH; *UTILITIES; *WATER POLLUTION CONTROL; *MAINTENANCE (WASTEWATER); *FACILITIES (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 123P. ORDER NO. PB 256 611

ABSTRACT: THIS MANUAL PROVIDES GUIDELINES TO AID PLANT MANAGEMENT IN SELECTING, INSTITUTING AND EVALUATING VARIOUS MAINTENANCE MANAGEMENT SYSTEMS FOR MUNICIPAL WASTEWATER TREATMENT FACILITIES. THE TEXT DISCUSSES THE FIVE CATEGORIES; EQUIPMENT RECORD SYSTEM; MAINTENANCE PLANNING AND SCHEDULING; STOREROOM AND INVENTORY SYSTEM; MAINTENANCE PERSONNEL AND ORGANIZATION; AND COST BUDGETS FOR MAINTENANCE OPERATIONS. ALSO, CRITERIA FOR EVALUATING PROPOSED OR EXISTING MAINTENANCE MANAGEMENT SYSTEMS ARE PROVIDED. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($6.50)

INSTITUTION NAME: U.S. EPA, MUNICIPAL OPERATIONS BRANCH.

IRIS ACCESSION NUMBER: EW001396

ERIC ACCESSION NUMBER: ED152570

PUBLICATION DATE: FEB 74

TITLE: EMERGENCY PLANNING FOR MUNICIPAL WASTEWATER TREATMENT FACILITIES.

PERSONAL AUTHOR: LEMON, R. A.; AND OTHERS

INSTITUTION CODE: BBB15511

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: COMMUNITY HEALTH; *EMERGENCY PROGRAMS; ENVIRONMENT; EQUIPMENT STANDARDS; HEALTH FACILITIES; *MANUALS; POLLUTION; SCIENCE EDUCATION; STANDARDS; *UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 77P.; FOR RELATED DOCUMENT, SEE SE 024 119

ISSUE: RIEAUG78

ABSTRACT: THIS MANUAL FOR THE DEVELOPMENT OF EMERGENCY OPERATING PLANS FOR MUNICIPAL WASTEWATER TREATMENT SYSTEMS WAS COMPILED USING INFORMATION PROVIDED BY OVER TWO HUNDRED MUNICIPAL TREATMENT SYSTEMS. IT COVERS EMERGENCIES CAUSED BY NATURAL DISASTERS, CIVIL DISORDERS AND STRIKES, FAULTY MAINTENANCE, NEGLIGENT OPERATION, AND ACCIDENTS. THE EFFECTS OF SUCH EMERGENCIES CONSIDERED ARE PERSONNEL ABSENCE, EQUIPMENT FAILURE, POWER LOSS, BLOCKED ACCESS, COMMUNICATION LOSS, AND THE PROTECTIVE MEASURES SUGGESTED INCLUDE VULNERABILITY ANALYSIS, WARNING DEVICES, STAND-BY AND/OR DUPLICATE PROCEDURES, AND PREVENTIVE MAINTENANCE. A LIST OF RESPONSES TO SPECIFIC EMERGENCIES OR FAILURE OF SPECIFIC SYSTEMS IS GIVEN. A CHECKLIST IS PROVIDED TO ASSIST IN THE PREPARATION OF EMERGENCY OPERATING AND RESPONSE MANUALS. (BB)

CONTRACT NUMBER: EPA-68-01-0341

INSTITUTION NAME: WILEY & WILSON, INC., LYNCHBURG, VA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW001406

PUBLICATION DATE: 75

TITLE: ANALYSIS INSTRUMENTATION, VOLUME 13.

PERSONAL AUTHOR: ALTZMEN; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MONITORING; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER ANALYSIS; WATER QUALITY

ABSTRACT: INTERPRETATION PROCEDURES FOR ANALYTICAL INSTRUMENTATION.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($15.00)

IRIS ACCESSION NUMBER: EW001409

PUBLICATION DATE: 75

TITLE: CHLORINE AND THE FIREFIGHTER, F SLIDES.

DESCRIPTOR: ACCIDENT PREVENTION; CHEMISTRY; *CHLORINE; FILMS; *FIRE PROTECTION; INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *SLIDES

DESCRIPTIVE NOTE: 79-2X2 COLOR SLIDES, SCRIPT; ALSO AVAILABLE IN MOTION PICTURE FORM AT $240.00 COST

ABSTRACT: PRECAUTIONS FOR THE FIREFIGHTER IN HANDLING FIRES WHERE CHLORINE IS PRESENT.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($45.00)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW001411

PUBLICATION DATE: 74

TITLE: PURIFICATION WITH ACTIVATED CARBON.

PERSONAL AUTHOR: HASSLER, J. W.

DESCRIPTOR: *ACTIVATED CARBON; *FILTRATION; INSTRUCTIONAL MATERIALS; OPERATIONS; POST SECONDARY EDUCATION; *WATER PURIFICATION; *WATER QUALITY; *WATER TREATMENT

ABSTRACT: APPLICATION OF ACTIVATED CARBON TO THE PURIFICATION OF WATER.

AVAILABILITY: CHEMICAL PUBLISHING CO., INC., 200 PARK AVENUE SOUTH, NEW YORK, NY 10003 ($32.00 PLUS $1.25 POSTAGE AND SHIPPING)

IRIS ACCESSION NUMBER: EW001412

PUBLICATION DATE: 74

TITLE: THE CHEMICAL TREATMENT OF COOLING WATER.

PERSONAL AUTHOR: MCCOY, JAMES W.

DESCRIPTOR: CHEMICAL ANALYSIS; CHEMISTRY; MEASUREMENT; ENGINEERING; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *POLLUTION; POST SECONDARY EDUCATION; *SCIENTIFIC METHODOLOGY; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER COOLING SYSTEMS; *WATER TREATMENT

DESCRIPTIVE NOTE: 237P.

ABSTRACT: THIS BOOK DISCUSSES THE CONCERNS ASSOCIATED WITH THE TREATMENT OF COOLING WATERS. CHAPTER I CONTAINS A DESCRIPTION OF THE STRUCTURE AND OPERATION OF OPEN RECIRCULATING COOLING WATER SYSTEMS. IN CHAPTER II VARIOUS TYPES OF CORROSION ARE DISCUSSED WHILE CHAPTER III CONSIDERS THE SUBJECT OF SCALING AND FOULING. CHAPTER IV ADDRESSES THE CONCERNS OF MICROBIOLOGY IN SUCH SYSTEMS. EVALUATION AND OPERATION PROCEDURES FOR COOLING SYSTEMS ARE PRESENTED IN CHAPTERS V, VI, AND VII. THE INFORMATION PRESENTED ILLUSTRATES IMPORTANT PRINCIPLES BUT IS NOT TO BE CONSIDERED A DO-IT-YOURSELF HANDBOOK. (CS)

AVAILABILITY: CHEMICAL PUBLISHING CO., 155 WEST 10TH STREET, NEW YORK, NY 10011 ($25.00)

IRIS ACCESSION NUMBER: EW001419

PUBLICATION DATE: 73

TITLE: PH AND PION CONTROL IN PROCESS AND WASTE STREAMS.

PERSONAL AUTHOR: SHINSKEY, F. G.

DESCRIPTOR: *CHEMICAL ANALYSIS; *ENGINEERING; *INSTRUCTIONAL MATERIALS; *PH; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; CHEMISTRY; CHROMATES; CYANIDE; ENVIRONMENTAL EDUCATION; MERCURY; PHOSPHATES; POLLUTION; SCIENCE EDUCATION

DESCRIPTIVE NOTE: 259P. ORDER NO O 471 78640-3

ABSTRACT: WRITTEN FOR ENGINEERS WHO MUST SPAN SEVERAL SEPARATE SCIENTIFIC DISCIPLINES IN DESIGNING AND OPERATING A WASTE- TREATMENT FACILITY. USES A SELF-TEACHING FORMAT TO COVER MEASUREMENT, APPLICATION, AND CONTROL. GIVES SPECIAL EMPHASIS TO THE NEUTRALIZATION OF STRONG ACIDS AND BASES, AND COVERS MORE TOXIC BUT LESS COMMON POLLUTANTS SUCH AS CYANIDE, CHROMATE, MERCURY, AND PHOSPHATES.

AVAILABILITY: JOHN WILEY AND SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($23.50).

IRIS ACCESSION NUMBER: EW001422

PUBLICATION DATE: 67

TITLE: AQUEOUS WASTES FROM PETROLEUM AND PETROCHEMICAL PLANTS.

PERSONAL AUTHOR: BEYCHOK, M. R.

DESCRIPTOR: BOOKS; *CHEMICAL INDUSTRY; *ENGINEERING; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *PETROLEUM INDUSTRY; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 370P.

ABSTRACT: WRITTEN FOR ALL ENGINEERS CONCERNED IN THE PLANNING, DESIGN, AND OPERATION OF PROCESSES INVOLVING AQUEOUS WASTE. DEVELOPS AND PRESENTS ALL THE NECESSARY DATA CONCERNING ADEQUATE AND ECONOMICAL WASTE TREATMENT DESIGN AND FACILITIES.

AVAILABILITY: JOHN WILEY AND SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($23.50)

IRIS ACCESSION NUMBER: EW001424

PUBLICATION DATE: 72

TITLE: DETERIORATION OF WATER.

DESCRIPTOR: *AUDIOVISUAL AIDS; CHEMISTRY; ENVIRONMENT; EUTROPHICATION; *FILMS; *HYDROLOGY; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MARINE BIOLOGY; OCEANOLOGY; POST SECONDARY EDUCATION; THERMAL POLLUTION; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 20 MIN., COLOR

ABSTRACT: THIS FILM BEGINS BY DESCRIBING THE RELATIVE ABUNDANCE OF WATER AND ITS IMPORTANCE IN MAINTAINING LIFE, ITS PROPERTIES, AND HOW IT CARRIES MATERIALS. POLLUTION IS DEFINED, AND SOME METHODS OF PURIFYING WATER SHOWN. THE HYDROLOGIC CYCLE THE CYCLE OF DECAY, AND EUTROPHICATION ARE SHOWN, AND EXPLAINED FULLY. MAN'S INFLUENCE ON THESE PROCESSES AND THE VARIOUS POLLUTANTS INVOLVED ARE DISPLAYED. THE ROLE OF THE MARINE BIOLOGIST AND HIS METHODS FOR MONITORING WATER QUALITY FOLLOW, WITH THERMAL POLLUTION AND SEWAGE TREATMENT ALSO CONSIDERED. THE LATEST METHODS & IDEAS ARE EXPLAINED.

AVAILABILITY: LEARNING CORP. OF AMERICA, 1350 AVENUE OF THE AMERICAS, NEW YORK, NY 10019 ($20.00 RENTAL)

INSTITUTION NAME: AMERICAN METEORLOGICAL SOCIETY.

IRIS ACCESSION NUMBER: EW001425

ERIC ACCESSION NUMBER: ED135658

PUBLICATION DATE: 72

TITLE: HOW TO PLAN AN ENVIRONMENTAL CONFERENCE, A TECHNIQUE FOR DEVELOPING CITIZEN LEADERSHIP.

INSTITUTION CODE: BBB05163

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: *COMMUNITY INVOLVEMENT; *CONFERENCES; *ENVIRONMENT; *LAND USE; LEADERSHIP TRAINING; NATURAL RESOURCES; *PROGRAM PLANNING; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 52P.; CONTAINS OCCASIONAL SMALL PRINT AND COLORED PAGES

ISSUE: RIEJUL77

ABSTRACT: THIS IS A MANUAL ON PLANNING LAND AND WATER USE SEMINARS FOR CITIZEN LEADERS. IT DRAWS ON EXPERIENCE OF 17 SUCH SEMINARS. THIS PUBLICATION UPDATES INFORMATION ON GOVERNMENTAL AND INSTITUTIONAL TOOLS USEFUL TO CITIZENS SEEKING SOLUTIONS TO THEIR WATER RESOURCE PROBLEMS. ORGANIZATIONAL TECHNIQUES OUTLINED ARE ADAPTABLE TO SMALL LOCAL CONFERENCES, MULTICOUNTY OR STATEWIDE PROJECTS, OR CONFERENCES OF NATIONAL SCOPE. SECTIONS INCLUDE: (1) INITIATING THE PROJECT; (2) THE PLANNING COMMITTEE; (3) SUBCOMMITTEES AND THEIR DUTIES; (4) AT THE SEMINAR; AND (5) FOLLOWING UP. (RH)

GRANT NUMBER: ITTI-WP-46-01

AVAILABILITY: LEAGUE OF WOMEN VOTERS EDUCATION FUND, 1730 M STREET, NORTHWEST, WASHINGTON, D.C. 20036 (PUBLICATION NUMBER 695; LIMITED QUANTITY FREE)

INSTITUTION NAME: LEAGUE OF WOMEN VOTERS OF THE U.S., WASHINGTON, D.C.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW001438

PUBLICATION DATE: JUL 73

TITLE: SURVEY OF FACILITIES USING LAND APPLICATION OF WASTEWATER.

PERSONAL AUTHOR: SULLIVAN, RICHARD H., AND OTHERS

DESCRIPTOR: *COST EFFECTIVENESS; ENVIRONMENT; *ENVIRONMENTAL CRITERIA; *LAND USE; MUNICIPALITIES; *POLLUTION; PUBLIC HEALTH; SANITATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; WASTEWATER OPERATIONS; *WASTEWATER TREATMENT; *LAND APPLICATION

DESCRIPTIVE NOTE: 381P. ORDER NO. PB 227 351

ABSTRACT: THIS DOCUMENT REPORTS THE FINDINGS OF A FIELD SURVEY CONDUCTED BY THE AMERICAN PUBLIC WORKS ASSOCIATION REGARDING THE LAND APPLICATION OF DOMESTIC OR INDUSTRIAL WASTEWATER EFFLUENTS APPLIED TO THE LAND, AS CONTRASTED TO CONVENTIONAL METHODS. THE FACILITIES SURVEYED WERE RELATIVELY LARGE WITH LONG-ESTABLISHED OPERATIONS. ADDITIONALLY, DATA WERE COLLECTED REGARDING STATE REGULATIONS AND FOREIGN EXPERIENCES. PHOTOGRAPHS OF REPRESENTATIVE FACILITIES ARE USED TO ILLUSTRATE LAND APPLICATION PRACTICES. A GLOSSARY OF PERTINENT TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($13.00)

IRIS ACCESSION NUMBER: EW001448

PUBLICATION DATE: 73

TITLE: WATER AND WATER POLLUTION HANDBOOK, VOL. 4.

PERSONAL AUTHOR: CIACCIO, LEONARD L., ED.

DESCRIPTOR: BIOLOGY; CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *LABORATORY TECHNIQUES; MATHEMATICAL MODELS; MICROBIOLOGY; MONITORING; NATURAL RESOURCES; ORGANIC CHEMISTRY; POLLUTION; SCIENTIFIC EQUIPMENT; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 630P. OTHER VOLUMES OF THIS HANDBOOK: EW000888, EW000889, AND EW003861

ABSTRACT: THIS BOOK IS ONE IN A FOUR VOLUME SET THAT DISCUSSES THE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS OF VARIOUS PARTS OF THE WATER ENVIRONMENT AND ASSOCIATED SYSTEMS. TOPIC DISCUSSIONS OF THIS VOLUME INCLUDE: (1) INSTRUMENTAL TECHNIQUES SUCH AS MASS SPECTROSCOPY AND GAS CHROMATOGRAPHICS; (2) BIOLOGICAL TESTS SUCH AS BACTERIAL, VIRAL, AND BIOASSAY; AND (3) ANALYTICAL SUBJECTS SUCH AS ORGANIC AND INORGANIC ANALYSIS, INSOLUBLE MATTER, MEASUREMENT SYSTEM DESIGN, AND MONITORING. (CS)

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 14305 ($52.50)

IRIS ACCESSION NUMBER: EW001456

PUBLICATION DATE: 72

TITLE: GUIDELINES FOR CHEMICAL PLANTS IN THE PREVENTION, CONTROL AND REPORTING OF SPILLS.

PERSONAL AUTHOR: BROWN, H. B.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *ENVIRONMENTAL INFLUENCES; *MANUFACTURING; *POLLUTION; PUBLIC HEALTH; SAFETY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *SPILL PREVENTION

DESCRIPTIVE NOTE: 22P.

ABSTRACT: THIS PUBLICATION DESCRIBES THE ESSENTIAL ELEMENTS IN INDIVIDUAL CHEMICAL PLANT SPILL PREVENTION. THESE GUIDELINES ARE PROVIDED TO ASSIST COMPANY AND PLANT

MANAGEMENT IN SITUATION ANALYSIS, TECHNIQUE DEVELOPMENT, AND PLANNING. TOPICAL AREAS INCLUDE TYPES AND CAUSES OF SPILLS, ELEMENTS OF SPILL PREVENTION AND CONTROL, RESPONSIVE REPORTING AND PUBLIC RELATIONS, AND SPILL PREVENTION AND CONTROL CHECK LISTS. (CS)

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC. 1825 CONNECTICUT AVE., NW WASHINGTON DC 20009 ($1.00)

IRIS ACCESSION NUMBER: EW001464

TITLE: ELECTRICAL SWITCH LOCKOUT PROCEDURE.

DESCRIPTOR: *ACCIDENT PREVENTION; *ELECTRICAL SYSTEMS; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; OPERATIONS (PLANT); *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 4P. ORDER NO. SG-9

ABSTRACT: PROCEDURES FOR THE USE OF LOCKOUT BARS AND TAGS ARE DESCRIBED.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($1.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001467

TITLE: OFF-THE-JOB SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 4P. ORDER NO. SG-11

ABSTRACT: PROCEDURES TO ENCOURAGE SAFETY WHILE OFF THE JOB.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($1.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001468

TITLE: PUBLIC RELATIONS IN EMERGENCIES.

DESCRIPTOR: *DISASTERS; *EMERGENCIES; *INSTRUCTIONAL MATERIALS; *PLANNING; *PUBLIC RELATIONS

DESCRIPTIVE NOTE: 4P. ORDER NO. SG-12

ABSTRACT: CRITERIA FOR EVALUATING PUBLIC RELATIONS PLANS FOR DISASTERS.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($1.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001469

TITLE: MAINTENANCE AND INSPECTION OF FIRE PROTECTION EQUIPMENT.

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; *FIRE PROTECTION; INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 4P. ORDER NO. SG-13

ABSTRACT: CHECK LIST FOR CHECKING ADEQUACY OF FIRE PROTECTION EQUIPMENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($1.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001470

PUBLICATION DATE: OCT 73

TITLE: TRAINING OF PROCESS OPERATORS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 4P. ORDER NO. SG-15

ABSTRACT: GUIDE FOR TRAINING OPERATORS IN SAFE PROCEDURES.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($1.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001471

PUBLICATION DATE: OCT 73

TITLE: LIQUID CHEMICALS: SAMPLING OF TANK CAR AND TANK TRUCK SHIPMENTS.

DESCRIPTOR: ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *SAMPLING; *TANK CARS

DESCRIPTIVE NOTE: 4P. ORDER NO. SG-16

ABSTRACT: PROCEDURES FOR SAMPLING TANK CARS.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($1.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001475

TITLE: SAFETY INSPECTION COMMITTEE IN A SMALL PLANT.

DESCRIPTOR: *ACCIDENT PREVENTION; *COMMITTEES; *INSPECTIONS; INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 4P. ORDER NO. SG-20

ABSTRACT: SUGGESTIONS ON HOW TO SET UP A SAFETY INSPECTION COMMITTEE.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVE., NW, WASHINGTON, D.C. 20009 ($1.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001478

PUBLICATION DATE: AUG 72

TITLE: CHEMICAL SAFETY DATA SHEET: HYDROFLUORIC ACID.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *HYDROFLUORIC ACID; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; OPERATIONS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 40P. ORDER NO. SD-25

ABSTRACT: HAZARDS, SAFETY, HANDLING AND STORAGE OF HYDRFLUORIC ACID.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($3.00)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001479

PUBLICATION DATE: SEP 65

TITLE: TRANSPORTATION EMERGENCY GUIDE: CHLORINE.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *CHLORINE; EMERGENCIES; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CC-53

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001481

PUBLICATION DATE: SEP 65

TITLE: TRANSPORTATION EMERGENCY GUIDE: SULFURIC ACID.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; FIRE PROTECTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *SULFURIC ACID

DESCRIPTIVE NOTE: 1P. ORDER NO. CC-25

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001482

PUBLICATION DATE: MAY 70

TITLE: CARGO INFORMATION CARD: CAUSTIC SODA SOLUTION.

DESCRIPTOR: *ACCIDENT PREVENTION; *CAUSTIC SODA SOLUTIONS; *CHEMICAL INDUSTRY; FIRE PROTECTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CIC-23

ABSTRACT: DIRECTION FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001483

PUBLICATION DATE: MAY 70

TITLE: CARGO INFORMATION CARD: CHLORINE.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *CHLORINE; FIRE PROTECTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CIC-24

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001484

PUBLICATION DATE: MAY 70

TITLE: CARGO INFORMATION CARD: HYDROFLUORIC ACID.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; FIRE PROTECTION; *HYDROFLUORIC ACID; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CIC-52

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001485

PUBLICATION DATE: MAY 71

TITLE: CARGO INFORMATION CARD: COMPRESSED GASES.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *COMPRESSED GAS; FIRE PROTECTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CIC-82

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001486

PUBLICATION DATE: MAY 71

TITLE: CARGO INFORMATION CARD: CARGOES WITH FLASHPOINTS OF 20 DEGREES FAHRENHEIT AND LOWER.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *FIRE PROTECTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CIC-83

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001487

PUBLICATION DATE: MAY 71

TITLE: CARGO INFORMATION CARD: CARGOES WITH FLASHPOINTS ABOVE 20 DEGREES FAHRENHEIT TO AND INCLUDING 80 DEGREES FAHRENHEIT.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *FIRE PROTECTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CIC-84

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001488

PUBLICATION DATE: MAY 71

TITLE: CARGO INFORMATION CARD: CARGOES WITH FLASHPOINTS ABOVE 80 DEGREES FAHRENHEIT.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *FIRE PROTECTION; *INDUSTRIAL SAFETY; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO. CIC-85

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001489

PUBLICATION DATE: MAY 71

TITLE: CARGO INFORMATION CARD: CARGOES WITH FLASHPOINTS ABOVE 80 DEGREES FAHRENHEIT AND REQUIRING HEAT FOR TRANSFER.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *FIRE PROTECTION; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1P. ORDER NO CIC-86

ABSTRACT: DIRECTIONS FOR HANDLING AN ACCIDENT.

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.50).

IRIS ACCESSION NUMBER: EW001491

PUBLICATION DATE: 70

TITLE: DRUMS STEEL USED FOR SHIPPING CORROSIVE LIQUIDS AS DEFINED BY DOT REGULATIONS.

DESCRIPTOR: ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; CHEMICALS; *CLEANING; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; OPERATIONS; POST SECONDARY EDUCATION; *SAFETY; *TANKS

DESCRIPTIVE NOTE: 8P. ORDER NO. D-30

ABSTRACT: DIRECTIONS FOR HANDLING AND STORING.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001494

PUBLICATION DATE: MAR 75

TITLE: LOADING AND UNLOADING LIQUID CAUSTIC FROM TANK CARS.

DESCRIPTOR: ACCIDENT PREVENTION; *CHEMICAL INDUSTRY; *CHEMICALS; *INDUSTRIAL SAFETY; *INSTRUCTIONAL MATERIALS; LOADING; MAINTENANCE; OPERATIONS; POST SECONDARY EDUCATION; *SAFETY; *TANKS

DESCRIPTIVE NOTE: 11P. ORDER NO. TC-29

ABSTRACT: RECOMMENDED PRACTICE.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001496

PUBLICATION DATE: MAY 74

TITLE: TANK CAR: APPROACH PLATFORMS.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DESIGN; *FACILITIES; INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; SAFETY; *TANK CARS

DESCRIPTIVE NOTE: 12P. ORDER NO. TC-7

ABSTRACT: DIRECTIONS FOR DESIGN.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001497

PUBLICATION DATE: 70

TITLE: RECOMMENDATIONS FOR SINGLE COMPARTMENT PNEUMATIC HOPPER HIGHWAY VEHICLES FOR TRANSPORT OF DRY BULK CHEMICALS AND PLATFORMS.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DESIGN; INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 4P. ORDER NO. TC-11

ABSTRACT: DIRECTIONS FOR DESIGN.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001498

PUBLICATION DATE: 70

TITLE: RECOMMENDATIONS FOR FACILITIES FOR RECEIPT OF DRY BULK CHEMICALS AND PLASTICS IN PNEUMATIC HOPPER HIGHWAY VEHICLES.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DESIGN; *FACILITIES; INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 4P. ORDER NO. TC-12

ABSTRACT: DIRECTIONS FOR DESIGN

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001499

PUBLICATION DATE: 70

TITLE: RECOMMENDATIONS FOR COVERED HOPPER CARS EQUIPPED WITH VACUUM PNEUMATIC OUTLETS FOR TRANSPORT OF DRY BULK CHEMICALS AND PLASTICS.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DESIGN; *FACILITIES; INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 4P. ORDER NO. TC-13

ABSTRACT: DIRECTIONS FOR DESIGN

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001500

PUBLICATION DATE: 71

TITLE: RECOMMENDATIONS FOR FACILITIES FOR RECEIPT OF DRY BULK CHEMICALS AND PLASTICS IN PRESSURE DIFFERENTIAL CARS.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DESIGN; *FACILITIES; INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 4P. ORDER NO. TC-16

ABSTRACT: DIRECTIONS FOR DESIGN

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001501

PUBLICATION DATE: 71

TITLE: RECOMMENDATIONS FOR FACILITIES FOR RECEIPT OF DRY BULK CHEMICALS AND PLASTICS IN COVERED HOPPER CARS EQUIPPED WITH VACUUM-PNEUMATIC OUTLETS.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DESIGN; *FACILITIES; INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 8P. ORDER NO. TC-17

ABSTRACT: DIRECTIONS FOR DESIGN.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001502

PUBLICATION DATE: 72

TITLE: RECOMMENDATIONS FOR TERMINAL FACILITIES FOR PNEUMATIC TRANSFER OF DRY BULK CHEMICALS AND PLASTICS.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DESIGN; *FACILITIES; INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 15P. ORDER NO. TC-18

ABSTRACT: DIRECTIONS FOR DESIGN.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001503

PUBLICATION DATE: 74

TITLE: RECOMMENDATIONS FOR INTRANSIT LOSS AND DAMAGE REPORT.

DESCRIPTOR: CHEMICAL INDUSTRY; *CHEMICAL TRANSPORT; *CHEMICALS; *DAMAGE REPORTS; INDUSTRY; INSTRUCTIONAL MATERIALS; *LOSS REPORTS; POST SECONDARY EDUCATION; *RECOMMENDATIONS; *TECHNICAL WRITING

DESCRIPTIVE NOTE: 4P. ORDER NO. TC-20

ABSTRACT: CHECK LIST FOR REPORTING LOSS OR DAMAGE DURING SHIPPING.

AVAILABILITY: MANUFACTURING CHEMISTS ASSOC., 1825 CONNECTICUT AVENUE, NW, WASHINGTON, D.C. 20009 ($0.75)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOC.

IRIS ACCESSION NUMBER: EW001510

PUBLICATION DATE: 72

TITLE: GUIDE FOR SAFETY IN THE CHEMICAL LABORATORY.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMISTRY; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *LABORATORY SAFETY; LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 506P.

ABSTRACT: HERE, FROM TODAY'S LEADING AUTHORITIES IN THE CHEMICAL INDUSTRY, IS QUICK REFERENCE HELP IN SAFELY HANDLING THE WIDE RANGE OF NEWLY DEVELOPED MATERIALS AND EQUIPMENT. A COOPERATIVE VENTURE OF THE INDUSTRY, THIS BOOK WAS PREPARED BY THE SAFETY AND FIRE PROTECTION COMMITTEE OF THE MCA. THE CONTRIBUTING AUTHORS REPRESENT FIRMS SUCH AS DOW, EASTMAN KODAK, AND DUPONT. TOGETHER THEY PROVIDE PROVEN SAFETY PROCEDURES DEVELOPED BY MANY INDIVIDUAL COMPANIES.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($18.95)

INSTITUTION NAME: MANUFACTURING CHEMISTS ASSOCIATION.

IRIS ACCESSION NUMBER: EW001519

TITLE: BASIC SUPERVISORY SKILLS.

DESCRIPTOR: *AUDIOVISUAL AIDS; EVALUATION; INTERVIEWING; *INSTRUCTIONAL MATERIALS; LEADERSHIP; MOTIVATION; PLANNING; *POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: ORDER NO. WW401T; 10 TRANSPARENCIES, 2 CASSETTES, HANDOUT MASTERS, AND ARTICLE REPRINTS

ABSTRACT: FOCUSES ON BASIC SKILLS REQUIRED FOR EFFECTIVE SUPERVISON. AREAS COVERED: NATURE OF SUPERVISION AND RESPONSIBILITIES OF THE SUPERVISOR; PLANNING AND CONTROL; LEADERSHIP STYLES; MOTIVATION; OVERCOMING RESISTANCE TO CHANGE; INTERVIEWING AND PERFORMANCE APPRAISING.

AVAILABILITY: LANSFORD PUBLISHING CO., DEPT. B, PO BOX 8711, SAN JOSE, CA 95155 ($175.95)

INSTITUTION NAME: LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001561

TITLE: FIRE PREVENTION.

DESCRIPTOR: ACCIDENT PREVENTION; *FIRE PROTECTION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *TRANSPARENCIES; *VISUAL AIDS; *WATER SUPPLY

DESCRIPTIVE NOTE: ORDER NO. S331T; 12 TRANSPARENCIES

ABSTRACT: BASICS OF FIRE SCIENCE INSTRUCTION TECHNIQUES ARE PRESENTED, INCLUDING FIRE HAZARD MEASUREMENT, ORGANIZATION OF FIRE SERVICE AGENCIES, FIREFIGHTING TACTICS, LEGAL PROBLEMS OF FIRE FIGHTERS, FIRE DETECTION AND CAUSES, WATER SYSTEMS, AND ELEMENTS OF HAZARDOUS MATERIALS.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001566

TITLE: MECHANICAL DRAWING.

DESCRIPTOR: *DRAFTING; *ENGINEERING DRAWING; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MECHANICAL DRAWING; *POST SECONDARY EDUCATION; *TRANSPARENCIES; VISUAL AIDS

DESCRIPTIVE NOTE: ORDER NO. S374T; 18 TRANSPARENCIES

ABSTRACT: DESIGNED FOR THE INSTRUCTOR WHO WANTS TO PRESENT THE BASIC ELEMENTS OF TWO-DIMENSIONAL DRAWING.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($69.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001569

TITLE: ENGINEERING GRAPHICS, SET 1: LETTERING AND INSTRUMENTS.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINICPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001570

TITLE: ENGINEERING GRAPHICS, SET 2: POINTS AND LINES.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001571

TITLE: ENGINEERING GRAPHICS, SET 3: LINES AND PLANES.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001572

TITLE: ENGINEERING GRAPHICS, SET 4: LINES, PLANES, PERPENDICULARS, AND INTERSECTIONS.

DESCRIPTOR: *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS; DRAFTING

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO. DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001573

TITLE: ENGINEERING GRAPHICS, SET 5: SOLIDS, PART I.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001574

TITLE: ENGINEERING GRAPHICS, SET 6: SOLIDS, PART II.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001575

TITLE: ENGINEERING GRAPHICS, SET 7: VECTORS.

DESCRIPTOR: *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS; DRAFTING

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO. DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001576

TITLE: ENGINEERING GRAPHICS, SET 8: SURFACE DEVELOPMENT AND INTERSECTIONS.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001577

TITLE: ENGINEERING GRAPHICS, SET 9: SECTIONS AND CONVENTIONS.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICES IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001578

TITLE: ENGINEERING GRAPHICS, SET 10: DIMENSIONING.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICE IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001579

TITLE: ENGINEERING GRAPHICS, SET 11: WORKING DRAWINGS.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICE IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001580

TITLE: ENGINEERING GRAPHICS, SET 12: PICTORIAL DRAWINGS.

DESCRIPTOR: DRAFTING; *ENGINEERING DRAWING; *GRAPHIC ARTS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TRANSPARENCIES; *VISUAL AIDS

DESCRIPTIVE NOTE: 10 TRANSPARENCIES

ABSTRACT: PRESENTS BASIC PRINCIPLES AND CURRENT PRACTICE IN GRAPHIC COMMUNICATION.

AVAILABILITY: THE LANSFORD PUBLISHING CO., DEPT. B, P.O. BOX 8711, SAN JOSE, CA 95155 ($59.95)

INSTITUTION NAME: THE LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001607

TITLE: RECYCLING OF MAN'S WASTE.

PERSONAL AUTHOR: RUHLE, J. L.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LANDFILLS; *MUNICIPAL WASTES; *RECYCLING; *SLIDES; *WASTE DISPOSAL; AUDIOVISUAL AIDS; METHANE; POST SECONDARY EDUCATION; SLUDGE DISPOSAL

DESCRIPTIVE NOTE: 50 35MM SLIDES, PRINTED NARRATION

ABSTRACT: INCLUDES: THE GASIFICATION OF MUNICIPAL WASTE IN A SANITARY LANDFILL BY MEANS OF "TRASH WELLS", THE USE OF SOLID WASTE TO FIRE BOILERS FOR GENERATION OF ELECTRICITY; VARIOUS EQUIPMENT AND SYSTEMS USED IN RECYCLING SOLID WASTE INCLUDING A SHREDDING HAMMER MILL, FLUIDIZED BED COMBUSTOR, AND OTHERS. INCLUDES THE VARIOUS STEPS IN THE PRODUCTION OF "MILORGANITE" FERTILIZER, METHANE PRODUCTION FROM SEWAGE SLUDGE, AND MORE.

AVAILABILITY: JAMES L. RUHLE AND ASSOC. P.O. BOX 4301, FULLERTON, CA 92631 (FILMSTRIP-$25.00; SLIDES-$50.00).

IRIS ACCESSION NUMBER: EW001608

TITLE: SHORT COURSE ON SUPERVISORY FUNCTIONS.

DESCRIPTOR: *AUDIOVISUAL AIDS; DISCIPLINE; EVALUATION; *INSTRUCTIONAL MATERIALS; PLANNING; *POST SECONDARY EDUCATION; *SUPERVISION; *WOMEN

DESCRIPTIVE NOTE: ORDER NO. AH301TC; 10 TRANSPARENCIES, 5 CASSETTES, AND TEACHER GUIDE

ABSTRACT: DEALS WITH SOLVING SUPERVISORY PROBLEMS. PROVIDES MINI-CASES DEALING WITH: ORGANIZING FOR EFFECTIVE WORK; PROBLEMS PECULIAR TO WOMEN EMPLOYEES; HANDLING DISCIPLINARY PROBLEMS; AND PERFORMANCE EVALUATION.

AVAILABILITY: LANSFORD PUBLISHING CO., DEPT. B, PO BOX 8711, SAN JOSE, CA 95155 ($195.95)

INSTITUTION NAME: LANSFORD PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001631

PUBLICATION DATE: 74

TITLE: POLLUTION CONTROL IN THE ORGANIC CHEMICAL INDUSTRY.

PERSONAL AUTHOR: SITTIG, MARSHALL

DESCRIPTOR: BIOLOGICAL TREATMENT; *CHEMICAL INDUSTRY; CHEMISTRY; ECONOMICS; EFFLUENTS; ENVIRONMENT; *INDUSTRIAL WASTES; *ORGANIC CHEMISTRY; *POLLUTION; SAMPLING; SECONDARY TREATMENT; TERTIARY TREATMENT; *WASTE DISPOSAL; *WASTEWATER TREATMENT

ABSTRACT: THIS BOOK INTENDS TO ASSIST THE CHEMICAL ENGINEER IN TREATING CHEMICAL WASTE PRODUCTS AND EFFLUENTS IN CONJUNCTION WITH PRUDENT RAW MATERIAL CHOICES AND METHODS, AND THUS BRING ABOUT PROCESS ECONOMIES. IT PRESENTS CONDENSED VITAL DATA FROM GOVERNMENT AND OTHER SOURCES OF INFORMATION THAT ARE SCATTERED AND DIFFICULT TO PULL TOGETHER. IMPORTANT POLLUTION REMOVAL PROCESSES ARE INTERPRETED AND EXPLAINED BY EXAMPLES FROM 72 U.S. PATENTS. THIS CONDENSED INFORMATION SHOULD ENABLE THE ESTABLISHMENT OF A SOUND BACKGROUND FOR ACTION IN COMBATING POLLUTION BY THE ORGANIC CHEMICAL INDUSTRY. SOME OF THE TOPICS DISCUSSED ARE WATER USAGE IN ORGANIC CHEMICALS MANUFACTURE, SPECIFIC PRODUCTS-MANUFACTURE AND POLLUTION PROBLEMS, AIR POLLUTION CONTROL PROCESSES, WATER POLLUTION CONTROL PROCESSES, AND POLLUTION CONTROL ECONOMICS. (BB)

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., MILL ROAD AT GRAND AVE., PARK RIDGE, NJ 07656 ($36.00)

IRIS ACCESSION NUMBER: EW001632

PUBLICATION DATE: 74

TITLE: POLLUTION DETECTION AND MONITORING HANDBOOK.

PERSONAL AUTHOR: SITTIG, M.

DESCRIPTOR: *AIR POLLUTION CONTROL; ANALYTICAL TECHNIQUES; EFFLUENTS; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; MANUALS; *MONITORING; POLLUTANTS; POLLUTION; POST SECONDARY EDUCATION; *QUALITY CONTROL; SAMPLING; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 461P.

ABSTRACT: THIS HANDBOOK CONTAINS METHODS FOR THE DETECTION AND MONITORING OF POLLUTANTS IN INDUSTRIAL EFFLUENTS, NOTABLY AIR AND WATER. FOR MEANINGFUL CONTROL AND PREVENTION OF POLLUTION THE ACCEPTED STANDARDS AND PARAMETERS FOR AIR AND WATER QUALITY MUST BE KNOWN. ACCEPTABLE LEVELS FOR EACH TYPE OF IMPURITY MUST BE KNOWN BY THE INDUSTRIALIST OR PUBLIC HEALTH OFFICIAL, AND THIS BOOK, WITH ITS 1633 REFERENCES MAKES AN ATTEMPT TO COMMUNICATE SUCH LEVELS.

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, MILL ROAD AT GRAND AVE., PARK RIDGE, NJ 07656 ($36.00)

IRIS ACCESSION NUMBER: EW001644

PUBLICATION DATE: 74

TITLE: TODAY'S SEALING - BETTER THAN EVER.

DESCRIPTOR: EQUIPMENT; *GASKETS; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; MECHANICAL EQUIPMENT; *MECHANICAL SEALS; *POST SECONDARY EDUCATION; *SEALS

ABSTRACT: COMPREHENSIVE REVIEW OF SEALING. REVIEWS RECENT PROGRESS ON MECHANICAL SEALS, PACKING, GASKETS AND LIP SEALS, WITH PARTICULAR ATTENTION TO MATERIALS, INSTALLATION AND ENVIRONMENTAL CONSIDERATIONS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($1.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001645

TITLE: ELECTRIC MOTORS - CONTROLS AND PROTECTION.

DESCRIPTOR: *ELECTRIC MOTORS; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MECHANICAL EQUIPMENT; *MOTORS; *POST SECONDARY EDUCATION

ABSTRACT: COMPREHENSIVE REVIEW OF ELECTRIC MOTORS AND PROTECTION OF MOTORS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($6.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001646

TITLE: BASIC DATA ON VIBRATION AND NOISE CONTROL.

DESCRIPTOR: ACOUSTICS; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MECHANICAL EQUIPMENT; *NOISE CONTROL; POST SECONDARY EDUCATION; *VIBRATION

ABSTRACT: COMPREHENSIVE REVIEW OF VIBRATION AND NOISE CONTROL FOR ROTATING EQUIPMENT.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($4.25)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001647

TITLE: BASIC DATA ON SEALS.

DESCRIPTOR: EQUIPMENT; *GASKETS; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MECHANICAL EQUIPMENT; *MECHANICAL SEALS; POST SECONDARY EDUCATION; *SEALS

ABSTRACT: COMPREHENSIVE REVIEW OF SEALING. REPORTS ON PACKING, PISTON RINGS, GASKETS, SEALS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($6.90)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001648

PUBLICATION DATE: 73

TITLE: AIR AND LIQUID HANDLING SYSTEMS.

DESCRIPTOR: EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *PLUMBING; *POST SECONDARY EDUCATION; *PUMPS; *VALVES

ABSTRACT: COMPREHENSIVE REVIEW OF AIR AND LIQUID HANDLING SYSTEMS. SPECIAL REPORTS ON PUMPS, PIPING, VALVES, COMPRESSING AIR, AIR DRYERS, AFTERCOOLERS AND FILTERS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($7.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001649

PUBLICATION DATE: 68

TITLE: FANS.

DESCRIPTOR: *EQUIPMENT; *FANS; *INDUSTRIAL FANS; INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; *MAINTENANCE; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 24P.

ABSTRACT: COMPREHENSIVE REVIEW OF INDUSTRIAL FANS. STARTING WITH A THOROUGH EXPLANATION OF HOW FANS WORK, THE REPORT PROGRESSES TO SPECIFIC CONSIDERATIONS SUCH AS SYSTEM DESIGN, FAN SELECTION, NOISE AND VIBRATION, CONTROLS, ACCESSORIES, AND INSTALLATION AND MAINTENANCE. DISCUSSES THE NEW MATERIALS WHICH ENABLE ENGINEERS TO APPLY AIR-MOVING EQUIPMENT TO THE MOST ADVERSE CONDITIONS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001650

PUBLICATION DATE: 75

TITLE: GAS TURBINES.

PERSONAL AUTHOR: SCHWIEGER, R. G.

DESCRIPTOR: ELECTRICAL SYSTEMS; ENERGY; *EQUIPMENT; *GAS TURBINES; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *TURBINES

ABSTRACT: FUNDAMENTALS OF GAS TURBINES.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($3.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001651

PUBLICATION DATE: 67

TITLE: COMBUSTION CONTROL.

DESCRIPTOR: *COMBUSTION CONTROL; ENGINEERING TECHNICIANS; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 32P.

ABSTRACT: COMBUSTION CONTROL HAS ADVANCED FAR FROM THE SIMPLE WATER GAUGE, PRESSURE GAUGE AND FLOW METER. IN BOTH CENTRAL STATION CONTROL ROOM AND SMALL INDUSTRIAL BOILER PLANT, TODAY'S ENGINEER MUST BE FAMILIAR WITH A WIDE RANGE OF MECHANICAL, ELECTRIC AND ELECTRONIC DEVICES. DISCUSSES BASIC PRINCIPLES, FOLLOWS WITH DETAILED EQUIPMENT DESCRIPTIONS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001652

PUBLICATION DATE: 65

TITLE: ELECTRIC DISTRIBUTION EQUIPMENT.

DESCRIPTOR: *ELECTRIC POWER; *ELECTRICAL SYSTEMS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 48P.

ABSTRACT: ANALYZES THAT PORTION OF THE ELECTRIC SYSTEM STRETCHING FROM INCOMING ELECTRIC UTILITY LINES RIGHT UP TO THE MEANS OF CONTROL AND APPLICATION. COVERS PRIMARY SUB-STATIONS, WAYS TO DISTRIBUTE PRIMARY VOLTAGE AROUND THE PLANT, SECONDARY SUB-STATIONS AND THE DISTRIBUTION OF THAT VOLTAGE.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($3.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001653

PUBLICATION DATE: 74

TITLE: THERMAL INSULATION.

DESCRIPTOR: *EQUIPMENT; HEATING; *INSTRUCTIONAL MATERIALS; *INSULATION; *MAINTENANCE; *PIPES; *POST SECONDARY EDUCATION; *THERMAL INSULATION

ABSTRACT: COMPREHENSIVE REVIEW OF THERMAL INSULATION. FROM TROWEL-ON TYPES TO THE REFLECTIVE BARRIERS USED FOR NUCLEAR PLANT PIPING. THEORY AND CALCULATION, PLUS INSTALLATION AND MAINTENANCE TIPS BASED ON FIELD EXPERIENCE.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($3.00)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001654

PUBLICATION DATE: 62

TITLE: NOISE CONTROL.

DESCRIPTOR: ACOUSTICS; *ENVIRONMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *NOISE CONTROL; *POLLUTION; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16P.

ABSTRACT: COMPREHENSIVE REVIEW OF NOISE CONTROL IN INDUSTRY AND THE COMMUNITY. TELLS WHAT NOISE IS, HOW IT IS MEASURED, HOW TO MAKE SURE A SURVEY IN YOUR PLANT AND WHAT TO DO ABOUT OBJECTIONABLE NOISE LEVELS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($1.50)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001655

PUBLICATION DATE: 56

TITLE: CORROSION.

DESCRIPTOR: *CORROSION; EQUIPMENT; INDUSTRIAL TECHNOLOGY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MECHANICAL EQUIPMENT; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 36P.

ABSTRACT: ANNUAL U.S. BILL FOR CORROSION IS ABOUT 6 BILLION DOLLARS. REPORT SHOWS HOW YOU CAN TRIM DOWN YOUR SHARE, PIN-POINT LATEST CORROSION-COMBATING WEAPONS.

AVAILABILITY: POWER MAGAZINE, REPRINT DEPT., 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($2.75)

INSTITUTION NAME: POWER MAGAZINE.

IRIS ACCESSION NUMBER: EW001657

PUBLICATION DATE: 74

TITLE: MANAGEMENT PRIMER ON WATER POLLUTION CONTROL.

PERSONAL AUTHOR: CROSS, F. L. JR.

DESCRIPTOR: INSERVICE EDUCATION; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *POST SECONDARY EDUCATION; WASTE DISPOSAL; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 191P.

ABSTRACT: A BASIC TEXT AND REFERENCE FOR THE DECISION-MAKER WHO IS NOT A SPECIALIST IN WATER POLLUTION CONTROL.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($25.00)

IRIS ACCESSION NUMBER: EW001658

PUBLICATION DATE: 74

TITLE: HANDBOOK ON MARINE ENVIRONMENTAL ENGINEERING.

PERSONAL AUTHOR: CROSS, F. L. JR., ED.

DESCRIPTOR: *ENGINEERING; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *OCEAN ENGINEERING; *OCEANOLOGY; *POLLUTION; SCIENCE EDUCATION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 186P.

ABSTRACT: INFORMATION ON ALL FORMS OF MARINE POLLUTION, AND THE PREVENTIVE AND REMEDIAL TECHNIQUES AVAILABLE.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($35.00)

IRIS ACCESSION NUMBER: EW001659

PUBLICATION DATE: 72

TITLE: FUNDAMENTAL ASPECTS OF WATER QUALITY MANAGEMENT.

PERSONAL AUTHOR: HANN, R. W. JR.

DESCRIPTOR: BIOLOGY; CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *POST SECONDARY EDUCATION; WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 158P.

ABSTRACT: TECHNIQUES FOR PLANNING, MANAGEMENT, ANALYSIS AND IMPROVEMENT OF WATER QUALITY.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($8.00)

IRIS ACCESSION NUMBER: EW001660

PUBLICATION DATE: 71

TITLE: DESIGN HANDBOOK OF WASTEWATER TREATMENT SYSTEMS.

PERSONAL AUTHOR: GOODMAN, B. L.

DESCRIPTOR: *DESIGN; DOMESTIC WASTES; *ENGINEERING; ENVIRONMENTAL TECHNICIANS; *FACILITIES; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 125P.

ABSTRACT: GUIDE TO ADVANCED DESIGN OF DOMESTIC AND INDUSTRIAL WASTEWATER TREATMENT SYSTEMS.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($20.00)

IRIS ACCESSION NUMBER: EW001661

PUBLICATION DATE: 76

TITLE: HANDBOOK OF WATER RESOURCES AND POLLUTION CONTROL.

PERSONAL AUTHOR: GEHM; BREGMAN

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LAWS; *MANUALS; MUNICIPAL WASTES; POST SECONDARY EDUCATION; *REGULATIONS; TERTIARY TREATMENT; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER RESOURCES; *WATER TREATMENT

ABSTRACT: PPROVIDES A SECTION-BY-SECTION ANALYSIS OF THE FEDERAL WATER POLLUTION CONTROL ACT, EXPLAINS THE TECHNOLOGY REQUIRED TO MEET THE LAWS REQUIREMENTS. DESCRIBES AREAS SUCH AS PRACTICAL, ECONOMIC DESALINATION; TERTIARY TREATMENT OF MUNICIPAL SEWAGE; TREATMENT AND DISTRIBUTION OF POTABLE WATER; DISPOSAL OF SLUDGE RESULTING FROM WASTE TREATMENT; BENEFICIAL USE OF WASTE HEAT FROM INDUSTRIAL FACILITIES; WATER RECLAMATION THROUGH ADVANCED TREATMENT OF MUNICIPAL AND INDUSTRIAL WASTEWATER.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($39.50)

IRIS ACCESSION NUMBER: EW001662

PUBLICATION DATE: 74

TITLE: NEW CONCEPTS IN WATER PURIFICATION, 1974.

PERSONAL AUTHOR: CULP, G. L.; CULP, R. L.

DESCRIPTOR: *DESIGN; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *OPERATIONS WATER; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER TREATMENT; ENGINEERING; FACILITIES; WASTEWATER TREATMENT; WATER QUALITY

DESCRIPTIVE NOTE: 306P. 103 ILLUSTRATIONS

ABSTRACT: SHOWS HOW TO USE ADVANCED TECHNIQUES FOR DESIGNING NEW TREATMENT PLANTS OR INCREASING THE CAPACITY AND PERFORMANCE OF EXISTING ONES. EXAMPLES IN FULL-SCALE USE OF THESE PROCEDURES, ENGINEERING DESIGN INFORMATION, AND ACTUAL PLANT OPERATING EXPERIENCES BRING YOU VITAL INFORMATION IN AREAS SUCH AS HIGH RATE (TUBE) SETTLING; ADVANCES IN COARSE-TO-FINE IN-DEPTH FILTRATION; A FULLY AUTOMATIC METHOD FOR OPTIMIZING AND CONTROLLING COAGULANT DOSAGE; DISPOSING OR RECLAIMING OF WASTE WATER PLANT SLUDGES; ENSURING ADEQUATE & SUCCESSFUL DISINFECTION; REMOVING TOXIC HEAVY METALS FROM WATER SUPPLIES.

AVAILABILITY: VAN NOSTRAND REINHOLD CO. 450 WEST 33RD STREET, NEW YORK, NY 10001 ($17.95).

IRIS ACCESSION NUMBER: EW001663

PUBLICATION DATE: 75

TITLE: INDUSTRIAL POLLUTION.

PERSONAL AUTHOR: SAX, N. I., ED.

DESCRIPTOR: ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *PESTICIDES; *POLLUTANTS; *POLLUTION; *TOXICOLOGY; WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 704P. 290 ILLUSTRATIONS

BSTRACT: TWENTY-THREE LEADING AUTHORITIES ON ENVIRONMENTAL OXICANTS PROVIDE INFORMATION OF VITAL INTEREST TO EVERYONE ONCERNED WITH A BETTER UNDERSTANDING OF THE SIGNIFICANCE OF ONTAMINATION AND THE PREVENTION OF POLLUTION. IDENTIFYING ONTAMINANTS AND THEIR PROPERTIES, INCLUDING RECEPTOR ENSITIVITY, THE BOOK DESCRIBES THE TOXICOLOGY OF NVIRONMENTAL POLLUTANTS, PARTICULARLY PESTICIDES. COVERING OLLUTION OF FRESH WATERWAYS, ESTUARINE BODIES, AND FINISHED ND POTABLE WATERS, IT SHOWS THE SOURCES OF THESE FORMS OF OLLUTION, ALONG WITH POSSIBLE EFFECTS AND SOLUTIONS.

VAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD TREET, NEW YORK, NY 10001 ($35.00)

RIS ACCESSION NUMBER: EW001691

UBLICATION DATE: 73

ITLE: A MAN AND A RIVER.

ESCRIPTOR: *AUDIOVISUAL AIDS; *CONSERVATION; ECOLOGY; ENVIRONMENT; *FILMS; HISTORY; INSTRUCTIONAL FILMS; *NATURAL ESOURCES; *RIVERS

ESCRIPTIVE NOTE: 16MM, 14 MIN., COLOR; TITLE NO. 00690

BSTRACT: DEPICTS A RIVER AND A MAN IN LOVE WITH IT. THE IVER IS THE BUFFALO, AND THE MAN IS THOMAS HART BENTON, MERICAN PAINTER, CONSERVATIONIST, AND RACONTEUR.

VAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST OAD, ELK GROVE VILLAGE, IL 60007 (CAN BE OBTAINED ON LOAN REE OF CHARGE)

RIS ACCESSION NUMBER: EW001697

RIC ACCESSION NUMBER: ED152503

UBLICATION DATE: AUG 74

ITLE: FEDERAL GUIDELINES - OPERATION AND MAINTENANCE OF ASTEWATER TREATMENT FACILITIES.

NSTITUTION CODE: BBB13327

ESCRIPTOR: ENVIRONMENTAL CRITERIA; *FEDERAL LEGISLATION; GUIDELINES; POLLUTION; STANDARDS; WASTE DISPOSAL; *WATER OLLUTION CONTROL; *WATER RESOURCES; *WASTEWATER TREATMENT; ACILITIES; MAINTENANCE; OPERATIONS (WASTEWATER)

DRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

ESCRIPTIVE NOTE: 31P.

SSUE: RIEAUG78

BSTRACT: THIS DOCUMENT CONTAINS THE FEDERAL GUIDELINES FOR EETING THE SPECIFIC REQUIREMENTS OF THE FEDERAL WATER OLLUTION CONTROL ACT AMENDMENTS OF 1972. THESE GUIDELINES RE ALSO INTENDED TO ASSIST IN MEETING THE REGULATIONS FOR RANT ASSISTED FACILITY CONSTRUCTION AND TO PROVIDE NFORMATION ON THE KEY ELEMENTS TO BE INCLUDED IN THE PERATION PLANS FOR WASTEWATER TREATMENT FACILITIES. THE UIDELINES INCLUDE THE FOLLOWING AREAS: (1) FEDERAL AND TATE INSEPCTIONS; (2) STAFFING AND TRAINING; (3) PROCESS ONTROL; (4) SAFETY; (5) EMERGENCY OPERATION PLAN; (6) AINTENANCE MANAGEMENT; (7) FINANCIAL CONTROLS; AND (8) ESPONSIBLITIES. A LIST OF REFERENCES ARE ALSO INCLUDED. THE UIDELINES ARE PRESENTED CATEGORICALLY TO ACCOMMODATE THEIR SE IN EITHER THE DEVELOPMENT OF NEW FACILITIES OR IN PGRADING THE OPERATION AND MAINTENANCE PROCEDURES AND ROGRAMS OF EXISTING FACILITIES. THIS PUBLICATION IS NTENDED FOR THOSE RESPONSIBLE FOR COMPLYING WITH GRANT EQUIREMENTS, SPECIFIC EFFLUENT PERMIT CRITERIA, AND RELATED ATER QUALITY STANDARDS. (MR)

NSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, ASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

RIS ACCESSION NUMBER: EW001703

ITLE: THE SEATTLE METRO STORY.

ESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; POLLUTION; POST SECONDARY EDUCATION; URBAN ENVIRONMENT; *WATER POLLUTION CONTROL; *WASHINGTON

ESCRIPTIVE NOTE: 16MM, 28 MIN., COLOR

BSTRACT: WHAT THE CITY OF SEATTLE DID TO CONTROL WATER OLLUTION.

VAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST OAD, ELK GROVE VILLAGE, IL 60007 (FREE RENTAL)

RIS ACCESSION NUMBER: EW001705

ITLE: THE WATER PLAN.

ESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL ILMS; *PLANNING; POST SECONDARY EDUCATION; WATER POLLUTION ONTROL; *WATER QUALITY; *WATER RESOURCES

ESCRIPTIVE NOTE: 16MM, 28 MIN., COLOR

BSTRACT: TECHNIQUES FOR OVERALL WATER QUALITY PLANNING IN A AREA.

VAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST OAD, ELK GROVE VILLAGE, IL 60007 (FREE RENTAL)

RIS ACCESSION NUMBER: EW001714

TITLE: THE DISCIPLINE INTERVIEW.

DESCRIPTOR: AUDIOVISUAL AIDS; *DISCIPLINE; *FILMS; *INTERVIEWS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, 16 MIN., COLOR

ABSTRACT: GIVES SUPERVISORS A PRACTICAL EXAMPLE OF HOW TO HANDLE THE DISCIPLINE INTERVIEW IN A WAY THAT WILL INCREASE PERFORMANCE, PRODUCTION, UNDERSTANDING AND COOPERATION.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($60.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001721

TITLE: THE REWARDS OF REWARDING.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, 24 MIN., COLOR; 48PP. LEADERS GUIDE

ABSTRACT: SHOWS SOUND PSYCHOLOGICAL BEHAVIOR TECHNIQUES FOR IMPROVING PERSONNEL RELATIONS, DECREASING TURNOVER, INCREASING PRODUCTIVITY, AND CONTRIBUTING TO A SMOOTHER, MORE EFFICIENT RUNNING ORGANIZATION.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($65.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001737

TITLE: ENCYCLOPEDIA OF ENVIRONMENTAL SCIENCE.

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; *POLLUTION; AIR POLLUTION CONTROL; POST SECONDARY EDUCATION; WATER POLLUTION CONTROL

ABSTRACT: REVIEW OF MANY ASPECTS OF THE ENVIRONMENT FOR THE LAYMAN AS WELL AS THE TECHNICAL STUDENT.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($24.50)

INSTITUTION NAME: MCGRAW-HILL BOOK COMPANY.

IRIS ACCESSION NUMBER: EW001738

PUBLICATION DATE: 72

TITLE: PRINCIPLES OF SAMPLE HANDLING AND SAMPLING SYSTEMS DESIGN FOR PROCESS ANALYSIS.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; INDUSTRIAL TECHNOLOGY; INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *OPERATIONS (WASTEWATER); OPERATIONS (WATER); *POST SECONDARY EDUCATION; WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO. HB9

ABSTRACT: A COMPREHENSIVE MONOGRAPH COVERING AREAS DIRECTLY CONNECTED WITH PROCESS ANALYSIS AND PROVIDES INFORMATION FOR PROCESS STREAM APPLICATION.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($10.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW001751

PUBLICATION DATE: 76

TITLE: HYDROLOGY FOR ENGINEERS, 2ND ED.

PERSONAL AUTHOR: LINSLEY, R. K.; AND OTHERS.

DESCRIPTOR: *ENGINEERING; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *MODELS; *POST SECONDARY EDUCATION; *SIMULATIONS; *SYSTEMS ANALYSIS

DESCRIPTIVE NOTE: 482P

ABSTRACT: CHAPTERS ON HYDRAULIC SIMULATION, STOCHASTIC HYDROLOGY AND MORPHOLOGY OF RIVER BASINS, BASIC PRINCIPLES OF HYDROLOGY. ENGLISH AND METRIC SYSTEMS USED.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.00).

IRIS ACCESSION NUMBER: EW001757

PUBLICATION DATE: 76

TITLE: MEASUREMENT OF PH (PH-1).

PERSONAL AUTHOR: RODWELL, V. W.; MILLER, D. L.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL AIDS; *LABORATORY TECHNIQUES; MEASUREMENT; *PH; *POST SECONDARY EDUCATION; *SLIDES; *VISUAL AIDS

DESCRIPTIVE NOTE: 45 SLIDES; 35 MINUTES

ABSTRACT: PRIMARILY THEORETICAL; PRESENTS PRACTICAL EXAMPLES OF PH CALCULATIONS AND DISCUSSION OF KEY MATHEMATICAL EXPRESSIONS. PREVIOUS EXPERIENCE IN BASIC MATH AND CHEMISTRY IS RECOMMENDED.

AVAILABILITY: BECKMAN INSTRUMENTS, INC., SCIENCE ESSENTIALS OPERATIONS, PO BOX 6100, ANAHEIM, CA 92806 ($120.00)

IRIS ACCESSION NUMBER: EW001758

PUBLICATION DATE: 76

TITLE: PRACTICAL PH (PH-2).

PERSONAL AUTHOR: WESTCOTT, C. C.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; MEASUREMENT; *PH; POST SECONDARY EDUCATION; *SLIDES; *VISUAL AIDS

DESCRIPTIVE NOTE: 45 SLIDES; 44 MINUTES

ABSTRACT: WRITTEN FOR THOSE WITH A LIMITED KNOWLEDGE OF PH; PRESENTS A REVIEW OF BASIC PH THEORY

AVAILABILITY: BECKMAN INSTRUMENTS, INC., SCIENCE ESSENTIALS OPERATIONS, PO BOX 6100, ANAHEIM, CA 92806 ($120.00)

IRIS ACCESSION NUMBER: EW001759

PUBLICATION DATE: 76

TITLE: HANDBOOK FOR WATER AND WASTEWATER ANALYSIS.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MANUALS; POST SECONDARY EDUCATION; *WATER ANALYSIS

ABSTRACT: ANALYTICAL TECHNIQUES FOR USE IN WATER AND WASTEWATER LABORATORIES.

AVAILABILITY: VWR SCIENTIFIC, PO BOX 3200, SAN FRANCISCO, CA 94119 (FREE)

INSTITUTION NAME: VWR SCIENTIFIC.

IRIS ACCESSION NUMBER: EW001762

PUBLICATION DATE: MAR 74

TITLE: PH METER - LABORATORY OPERATION (XT-69).

PERSONAL AUTHOR: HALLBACH, P. F.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; SCIENCE EQUIPMENT; WATER POLLUTION CONTROL; *PH METERS; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS AN 11 MINUTE TAPE, 50 SLIDES AND SCRIPT. AVAILABLE ON LOAN FROM NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR WASTEWATER TREATMENT PLANT OPERATORS AS AN INTRODUCTION TO THE THEORETICAL CONCEPTS OF PH MEASUREMENT AND THE USE OF A PH METER. IT IS DESIGNED TO BE SHOWN AS SUPPLEMENTAL INFORMATION FOR LABORATORY SESSION ON PH MEASUREMENTS IN ENVIRONMENTAL MONITORING PROCEDURES COURSE. THIS SEQUENCE SHOWS SET-UP, CALIBRATION, AND OPERATIONAL PROCEDURES FOR PORTABLE TYPE PH METER.

IRIS ACCESSION NUMBER: EW001765

PUBLICATION DATE: 74

TITLE: DETERMINATION OF DISSOLVED OXYGEN - POLAROGRAPHIC PROBE METHOD (XT-83).

PERSONAL AUTHOR: HALLBACH, P. F.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *OXYGEN; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 6 MINUTE TAPE, 32 SLIDES AND SCRIPT. AVAILABLE ON LOAN FROM NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR WASTEWATER TREATMENT PLANT OPERATORS LEARNING TO PERFORM THE BASIC PROCEDURE FOR SET-UP, CALIBRATION AND USE OF YSI OXYGEN METER FOR THE DETERMINATION OF DISSOLVED OXYGEN IN A SAMPLE OF WASTEWATER TREATMENT PLANT EFFLUENT. IT IS DESIGNED TO BE SHOWN AS SUPPLEMENTAL INFORMATION FOR THE LABORATORY SESSION ON DISSOLVED OXYGEN MEASUREMENTS IN THE EFFLUENT MONITORING PROCEDURES COURSE (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW001789

PUBLICATION DATE: 75

TITLE: COMPUTATIONAL SKILLS WITH APPLICATIONS (INSTRUCTOR'S MANUAL).

PERSONAL AUTHOR: BELL, D. W. ; PARRISH, R. G.

DESCRIPTOR: *ARITHMETIC; *INDEPENDENT STUDY; INSERVICE EDUCATION; *INSTRUCTIONAL MATERIALS; *LEARNING MODULES; *MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; PROGRAMED INSTRUCTION; *TEACHING GUIDES; *TECHNICAL MATHEMATICS

DESCRIPTIVE NOTE: 120P.

ABSTRACT: PROVIDES INSTRUCTOR WITH GUIDELINES ON STRUCTURING THE COURSE, (CLASS MANAGEMENT, FACILITIES, TESTING PROCEDURES), AND COMMON MANAGEMENT AND MOTIVATIONAL PROBLEMS ENCOUNTERED IN THIS TYPE OF COURSE. INCLUDES PRETESTS FOR UNITS 1-4, TESTS FOR ALL UNITS, FINAL EXAMINATION, AND TEST ANSWERS.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET, LEXINGTON, MA 02173 (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW001806

PUBLICATION DATE: 72

TITLE: TRAINING MANUAL FOR WATER PLANT OPERATORS - GRAD III.

PERSONAL AUTHOR: HILL, M. T.

DESCRIPTOR: AERATION; ANALYTICAL TECHNIQUES; CHLORINATION DISINFECTION; FILTRATION; *INSTRUCTIONAL MATERIALS *MANUALS; *OPERATIONS (WASTEWATER); POST SECONDAR EDUCATION; WASTE DISPOSAL; *WASTEWATER TREATMENT; WATE DISTRIBUTION; *WATER QUALITY

DESCRIPTIVE NOTE: 158P. NOT AVAILABLE IN QUANTITY OUT O STATE, COPYABLE UPON REQUEST

ABSTRACT: REFERENCE MANUAL FOR THE OPERATOR OF A SMALL (AB CLASS I) WATER TREATMENT PLANT OR FOR THE ASSISTANT OPERATO OF A LARGER (ABC CLASS II OR III) FACILITY. INCLUDES BASI INFORMATION REGARDING SOFTENING, LAB EXAMINATIONS AN INTERPRETATIONS, MICROSCOPIC EXAMINATIONS, HYDRAULICS O DISTRIBUTION AND OPERATIONS ARITHMETIC.

AVAILABILITY: NEW YORK STATE DEPARTMENT OF ENVIRONMENTA CONSERVATION, 50 WOLF ROAD, ALBANY, NY 12233

IRIS ACCESSION NUMBER: EW001810

PUBLICATION DATE: 74

TITLE: THE VALLEY.

DESCRIPTOR: ACID MINE DRAINAGE; AUDIOVISUAL AIDS ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONA MATERIALS; *MANAGEMENT; *OHIO RIVER; POLLUTION; POS SECONDARY EDUCATION; *RIVERS; WASTEWATER; *WATER QUALITY *WATER RESOURCES

DESCRIPTIVE NOTE: 16MM, 28 MIN., COLOR

ABSTRACT: WATER QUALITY MANAGEMENT IN THE OHIO RIVE VALLEY.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD FALLS CHURCH, VA 22041 ($30.00 RENTAL; $300.00 PURCHASE)

INSTITUTION NAME: STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW001811

PUBLICATION DATE: 75

TITLE: DRIP.

DESCRIPTOR: AUDIOVISUAL AIDS; *CONSERVATION; *ENVIRONMENT *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POS SECONDARY EDUCATION; WATER RATES; *RESOURCES

DESCRIPTIVE NOTE: 16MM, 20 MIN., COLOR

ABSTRACT: THE URGENCY OF CONSERVING WATER AND METHODS FO DOING SO.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD FALLS CHURCH, VA 22041 ($30.00 RENTAL; $300.00 PURCHASE)

INSTITUTION NAME: STUART FINLEY, INC.

IRIS ACCESSION NUMBER: EW001812

PUBLICATION DATE: 75

TITLE: TEN STATES STANDARDS FOR BATHING BEACHES.

DESCRIPTOR: *BEACHES; *OCEANOLOGY; *PUBLIC BEACHES; *STANDARDS; *STATE REGULATIONS; *WATER QUALITY; ADMINISTRATIVE AGENCIES; CHEMICAL ANALYSIS; MICROBIOLOGY; RECREATIONAL WATERS

DESCRIPTIVE NOTE: 20P

ABSTRACT: THE STANDARDS COMMITTEE ON SWIMMING POOLS AND BATHING BEACHES, OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS, HAS DEVELOPED PHYSICAL SAFETY, CHEMICAL AND BACTERIOLOGICAL STANDARDS FOR BATHIN BEACHES, OTHER THAN OCEAN BEACHES. THESE STANDARDS ARE DESIGNED TO SERVE AS A GUIDE FOR THE DESIGN, OPERATION AN USE OF PUBLIC BATHING BEACHES, TO ENCOURAGE SUBMISSION OF PLANS FOR PROPOSED PUBLIC BATHING BEACHES OR THEIR IMPROVEMENT, AND TO ESTABLISH UNIFORMITY.

AVAILABILITY: HEALTH EDUCATION SERVICE, PO BOX 7283, ALBANY, NY 12224 ($1.50)

INSTITUTION NAME: NEW YORK HEALTH EDUCATION SERVICE.

RIS ACCESSION NUMBER: EW001827

UBLICATION DATE: 74

ITLE: ENVIRONMENTAL EDUCATION GUIDE FOR ADMINISTRATORS.

ESCRIPTOR: *ADMINISTRATORS; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PLANNING; *POST ECONDARY EDUCATION

BSTRACT: THE ADMINISTRATOR'S PERSPECTIVE: FORMING A OMMITTEE, TRAINING TEACHERS, SPECIAL CONSIDERATIONS, OMMUNITY RELATIONS, INFORMATION SOURCES - ALL REQUISITES TO LANNING. SEQUENTIAL STEPS IN DEVELOPING AN ENVIRONMENTAL ROGRAM LISTED AND CROSS-REFERENCED TO OTHER GUIDES IN THE ERIES.

VAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 UCLID AVE. CLEVELAND, OH 44106 ($2.25)

NSTITUTION NAME: INSTITUTE FOR ENVIRONMENTAL EDUCATION.

RIS ACCESSION NUMBER: EW001828

UBLICATION DATE: 74

ITLE: ENVIRONMENTAL EDUCATION GUIDE FOR TEACHERS.

ESCRIPTOR: *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL ATERIALS; POST SECONDARY EDUCATION; *TEACHING GUIDES; WATER ESOURCES; *WATERSHEDS

BSTRACT: INTRODUCTORY DESCRIPTION OF TEACHERS ROLE, RAINING, NEEDS, PROBLEMS IN STARTING ENVIRONMENTAL STUDIES. OLLOWS ADMINISTRATOR'S GUIDE AND IS FULLY AMPLIFIED "GUIDE O WATERSHED INVESTIGATIONS AND ENVIRONMENTAL STUDIES."

VAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 UCLID AVE., CLEVELAND, OH 44106 ($4.50)

NSTITUTION NAME: INSTITUTE FOR ENVIRONMENTAL EDUCATION.

RIS ACCESSION NUMBER: EW001829

UBLICATION DATE: 74

ITLE: ENVIRONMENTAL GUIDE FOR WORKSHOPS.

ESCRIPTOR: *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL ATERIALS; *PLANNING; *POST SECONDARY EDUCATION; *TEACHER DUCATION; *WORKSHOPS

BSTRACT: HOW TO CONDUCT A TEACHER-TRAINING WORKSHOP IN THE ROCESS OF ENVIRONMENTAL STUDIES. WORKSHOP IS A MINI-MODEL F THE ADVOCATED SCHOOL: COMMUNITY PROGRAM. PROCESS IS ANDS-ON, CONSTRUCT OWN EQUIPMENT, INITIATE INVESTIGATIONS, OLLECT DATA, ANALYZE, PARTICIPATE IN COMMUNITY SYSTEMS. PECIFIC ROLES OF THE WORKSHOP HOST, SITE MANAGER, AND ROGRAM INSTRUCTORS ARE DETAILED FROM SEVERAL YEARS OF XPERIENCE.

VAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 UCLID AVE., CLEVELAND, OH 44106 ($2.25)

NSTITUTION NAME: INSTITUTE FOR ENVIRONMENTAL EDUCATION.

RIS ACCESSION NUMBER: EW001830

RIC ACCESSION NUMBER: ED154986

UBLICATION DATE: 72

ITLE: A CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND NVIRONMENTAL STUDIES: ACTIVITIES. APPENDICES, VOLUME 1 AND OLUME 2.

ERSONAL AUTHOR: HERSHEY, JOHN T.; AND OTHERS

NSTITUTION CODE: BBB04372

PONSORING AGENCY CODE: BBB13327; QPX27000

ESCRIPTOR: *CURRICULUM GUIDES; ECOLOGY; *ENVIRONMENTAL DUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; UTDOOR EDUCATION; POLLUTION; *SECONDARY EDUCATION; *WATER ESOURCES

DRS PRICE: EDRS PRICE MF-$1.00 HC-$26.11 PLUS POSTAGE.

ESCRIPTIVE NOTE: 490P.; FOR RELATED DOCUMENT, SEE ED 045 80; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

SSUE: RIEOCT78

BSTRACT: THIS ACTIVITY ORIENTED GUIDE IS DIVIDED INTO FOUR ECTIONS DEALING WITH THE HYDROLOGIC CYCLE; HUMAN CTIVITIES; ECOLOGICAL PERSPECTIVES; AND SOCIAL AND OLITICAL FACTORS. EACH ACTIVITY CONTAINS SEVEN PARTS: (1) N INTRODUCTION; (2) QUESTIONS ABOUT THE ACTIVITY; (3) ECESSARY EQUIPMENT; (4) PROCEDURES; (5) RESULTS OBTAINED BY SING THE STUDY; (6) LIMITATIONS AND PROBLEMS ENCOUNTERED ITH THE ACTIVITY; AND (7) AN ANNOTATED BIBLIOGRAPHY. THE PPENDICES INCLUDE A DISCUSSION OF WATER QUALITY PARAMETERS, IDS TO IMPLEMENTATION, SUGGESTIONS REGARDING LIMITATIONS, UGGESTIONS FOR EVALUATION, A BIBLIOGRAPHY, A WATER OLLUTION AND ENVIRONMENTAL GLOSSARY, AND COMMENTS ABOUT ABORATORY AND FIELD SAFETY. (CS)

RANT NUMBER: 1TT1-WP-41-01

VAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT RINTING OFFICE, WASHINGTON, D.C. 20402 ($2.25)

NSTITUTION NAME: TILTON SCHOOL, N.H.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.; FORD FOUNDATION, NEW YORK, N.Y.

IRIS ACCESSION NUMBER: EW001831

ERIC ACCESSION NUMBER: ED093648

PUBLICATION DATE: SEP 73

TITLE: A CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION EQUIPMENT AND ENVIRONMENTAL STUDIES, VOLUME 3.

PERSONAL AUTHOR: HERSHEY, JOHN T., ED.; AND OTHERS

INSTITUTION CODE: BBB10509

DESCRIPTOR: *ACTIVITY LEARNING; *CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL RESEARCH; EQUIPMENT; *LABORATORY EQUIPMENT; POLLUTION; STUDENT DEVELOPED MATERIALS; *WATER POLLUTION CONTROL; WATER RESOURCES; *INSTITUTE FOR ENVIRONMENTAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$6.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 130P.

ISSUE: RIENOV74

ABSTRACT: THE PURPOSE OF THIS GUIDEBOOK IS TO PRESENT INSTRUCTIONS FOR CONSTRUCTING LOW-COST INSTRUMENTS FOR ENVIRONMENTAL STUDIES. THE INSTRUMENTS DISCUSSED WERE EITHER ADOPTED OR DESIGNED BY STUDENTS WHO WERE PRESENTED WITH THE PROBLEM OF PRODUCING LOW-COST ENVIRONMENTAL MONITORING EQUIPMENT. THIS BOOK IS A SEQUEL TO A CURRICULUM ACTIVITIES GUIDE TO WATER POLLUTION AND ENVIRONMENTAL STUDIES VOLUMES 1 AND 2, BUT CAN BE USED INDEPENDENTLY OF THE GUIDE. INFORMATION CONCERNING THE PUBLICATION OF THE CURRICULUM GUIDE MENTIONED ABOVE IS AVAILABLE IN THIS DOCUMENT. (JP)

AVAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 EUCLID AVENUE, CLEVELAND, OHIO 44106 ($6.75)

INSTITUTION NAME: INSTITUTE FOR ENVIRONMENTAL EDUCATION, CLEVELAND, OHIO.

IRIS ACCESSION NUMBER: EW001832

ERIC ACCESSION NUMBER: ED104651

PUBLICATION DATE: DEC 74

TITLE: A CURRICULUM ACTIVITIES GUIDE TO WATERSHED INVESTIGATIONS AND ENVIRONMENTAL STUDIES, VOLUME 6. REVISED.

PERSONAL AUTHOR: GAIL, PETER A.; AND OTHERS

INSTITUTION CODE: QAT54444

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; INVESTIGATIONS; *LEARNING ACTIVITIES; *NATURAL RESOURCES; OUTDOOR EDUCATION; SCIENCE EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *WATER POLLUTION CONTROL; WATER RESOURCES; *WATERSHEDS

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$8.24 PLUS POSTAGE

DESCRIPTIVE NOTE: 154P.; BEST COPY AVAILABLE; OCCASIONAL MARGINAL LEGIBILITY

ISSUE: RIEAUG75

ABSTRACT: THIS CURRICULUM ACTIVITIES GUIDE PROVIDES THE TEACHER WITH A MODEL FOR A COMPREHENSIVE PROGRAM IN WATERSHED STUDIES. WITH INCREASED CONCERN OVER WATER POLLUTION, A STUDY OF THE WATERSHED IS IMPORTANT TO COMPLETE AN UNDERSTANDING OF WATER DRAINAGE PROBLEMS. THIS GUIDE INCLUDES A RATIONALE FOR THE STUDY OF WATERSHEDS AND DEVELOPS METHODS OF IMPLEMENTATION WITHIN THE SCHOOL SYSTEM. AN OPERATIONAL MODEL FOR A WATERSHED STUDY PROGRAM ILLUSTRATES THE DATA TO BE COLLECTED, PROBLEMS TO BE IDENTIFIED, AND SPECIAL GROUPS TO BE CONTACTED FOR SUPPORT. WITH THE TEACHING ACTIVITIES IN THE GUIDE, BACKGROUND INFORMATION IS INCLUDED. A SECTION IN THE GUIDE EXPLAINS THE SKILLS NEEDED FOR THE WATERSHED STUDY AND APPENDICES AT THE END INCLUDE A BIBLIOGRAPHY AND SAMPLE ORGANIZATIONAL INFORMATION. (MA)

GRANT NUMBER: OEG-0-72-4987

AVAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 EUCLID AVENUE, CLEVELAND, OH 44106 ($6.75)

INSTITUTION NAME: SOUTH BRUNSWICK TOWNSHIP BOARD OF EDUCATION, MONMOUTH JUNCTION, N.J.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW001833

PUBLICATION DATE: 77

TITLE: TESTING FOR FECAL COLIFORM.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; BIOLOGY; *FECAL COLIFORM; *FILMSTRIPS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MICROBIOLOGY; MONITORING; *POST SECONDARY EDUCATION; *WATER ANALYSIS; WATER QUALITY; *E. COLI

DESCRIPTIVE NOTE: 85 FRAME FILMSTRIP, TAPE CASSETTE, TEXT, AND PROCEDURES MANUAL. (SERIES H, UNIT 1)

ABSTRACT: INTRODUCES SIGNIFICANCE OF FECAL COLIFORM AS BIOLOGICAL INDICATOR OF WATER QUALITY. DEMONSTRATES FIELD SAMPLING LABORATORY MICROFILTRATION TECHNIQUE, INCUBATING, AND COLONY COUNTING. DEVELOPED ESPECIALLY FOR SECONDARY SCHOOLS AND COLLEGES IN MONITORING PROGRAMS.

AVAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 EUCLID AVE., CLEVELAND, OH 44106 ($33.50)

INSTITUTION NAME: INSTITUTE FOR ENVIRONMENTAL EDUCATION.

IRIS ACCESSION NUMBER: EW001834

PUBLICATION DATE: 77

TITLE: TESTING FOR DISSOLVED OXYGEN USING THE MODIFIED WINKLER METHOD.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUDIOVISUAL AIDS; *DISSOLVED OXYGEN; *FILMSTRIPS; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; MONITORING; *OXYGEN; *POST SECONDARY EDUCATION; *WATER ANALYSIS; WATER QUALITY

DESCRIPTIVE NOTE: 65 FRAME FILMSTRIP, TAPE CASSETTE, TEXT, REAGENTS AND PROCEDURES MANUAL. (SERIES H, UNIT #2)

ABSTRACT: INTRODUCES SIGNIFICANCE OF DISSOLVED OXYGEN AS INDICATOR OF WATER QUALITY. DEMONSTRATES FIELD SAMPLING AND LABORATORY PROCEDURE USING MODIFIED WINKLER. DEVELOPED ESPECIALLY FOR SECONDARY SCHOOLS AND COLLEGES IN MONITORING PROGRAMS.

AVAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 EUCLID AVE., CLEVELAND, OH 44106 ($33.50)

INSTITUTION NAME: INSTITUTE FOR ENVIRONMENTAL EDUCATION.

IRIS ACCESSION NUMBER: EW001838

PUBLICATION DATE: 73

TITLE: PIPING SYSTEMS: PROGRAMMED INSTRUCTION MANUAL.

DESCRIPTOR: CAST IRON PIPES; DISTRIBUTION SYSTEMS; *EQUIPMENT; *INDIVIDUALIZED INSTRUCTION; INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; OPERATIONS (PLANT); PIPE LININGS; *PIPES; PLASTIC PIPES; POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION; *VALUES

DESCRIPTIVE NOTE: 16P. NO. 306-TEN; SELF-PACED INSTRUCTIONAL LESSONS INCLUDING PROGRAMMED EXERCISES, SELF-CHECK QUIZES, AND SUPPL. MATERIALS; PERIODICALLY REVISED

ABSTRACT: FOR IN-PLANT TRAINING OF MAINTENANCE CRAFTSMEN. ADJUNCTIVELY PROGRAMMED TRAINING UNITS WRITTEN TO SUPPLEMENT TRAINEES' ON-THE-JOB EXPERIENCES. FIRST LINE SUPERVISOR ADMINISTERS TRAINING IN CAPACITY OF "COURSE MANAUER." INSTRUCTOR'S MATERIALS FURNISHED FREE WITH EACH UNIT.

AVAILABILITY: TECHNICAL PUBLISHING CO., DEPT 5, PLANT ENGINEERING TRAINING, 1301 S GROVE AVE., BARRINGTON, IL 60010 ($24.75)

INSTITUTION NAME: TECHNICAL PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001839

PUBLICATION DATE: 75

TITLE: PUMPS: PROGRAMMED INSTRUCTION MANUAL.

DESCRIPTOR: *CENTRIFUGAL PUMPS; *EQUIPMENT; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *PUMPS; *SELF PACED INSTRUCTION; INDUSTRIAL TECHNOLOGY; OPERATIONS PLANT; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16P. NO. 305-TEN; SELF-PACED INSTRUCTIONAL LESSONS INCLUDING PROGRAMMED EXERCISES, SELF-CHECK QUIZES, AND SUPPL. MATERIALS; PERIODICALLY REVISED

ABSTRACT: FOR IN-PLANT TRAINING OF MAINTENANCE CRAFTSMEN. ADJUNCTIVELY PROGRAMMED TRAINING UNITS WRITTEN TO SUPPLEMENT TRAINEES' ON-THE-JOB EXPERIENCES. FIRST LINE SUPERVISOR ADMINISTERS TRAINING IN CAPACITY OF "COURSE MANAGER". INSTRUCTOR'S MATERIALS FURNISHED FREE WITH EACH UNIT.

AVAILABILITY: TECHNICAL PUBLISHING CO. DEPT. 5, PLANT ENGINEERING TRAINING, 1301 S GROVE AVE. BARRINGTON, IL 60010 ($24.75)

INSTITUTION NAME: TECHNICAL PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001840

PUBLICATION DATE: 75

TITLE: DRIVE COMPONENTS: PROGRAMMED INSTRUCTION MANUAL.

DESCRIPTOR: *EQUIPMENT; *INDIVIDUALIZED INSTRUCTION; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS PLANT; *SELF PACED INSTRUCTION; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16P. NO. 303-TEN; SELF-PACED INSTRUCTIONAL LESSONS INCLUDING PROGRAMMED EXERCISES, SELF-CHECK QUIZES, AND SUPPL. MATERIALS; PERIODICALLY REVISED

ABSTRACT: FOR IN-PLANT TRAINING OF MAINTENANCE CRAFTSMEN. ADJUNCTIVELY PROGRAMMED TRAINING UNITS WRITTEN TO SUPPLEMENT TRAINEES' ON-THE-JOB EXPERIENCES. FIRST LINE SUPERVISOR ADMINISTERS TRAINING IN CAPACITY OF "COURSE MANAGER". INSTRUCTOR'S MATERIALS FURNISHED FREE WITH EACH UNIT.

AVAILABILITY: TECHNICAL PUBLISHING CO. DEPT. 5, PLANT ENGINEERING TRAINING, 1301 S GROVE AVE. BARRINGTON, IL 60010 ($24.75)

INSTITUTION NAME: TECHNICAL PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001843

PUBLICATION DATE: 74

TITLE: ELECTRICAL TROUBLESHOOTING: PROGRAMMED INSTRUCTION MANUAL.

DESCRIPTOR: *ELECTRICAL SYSTEMS; *EQUIPMENT PLANT; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION; *SELF PACED INSTRUCTION; *TROUBLESHOOTING

DESCRIPTIVE NOTE: 16P. NO. 210-TEN; SELF-PACED INSTRUCTIONAL LESSONS INCLUDING PROGRAMMED EXERCISES, SELF-CHECK QUIZES, AND SUPPL. MATERIALS; PERIODICALLY REVISED

ABSTRACT: FOR IN-PLANT TRAINING OF MAINTENANCE CRAFTSMEN. ADJUNCTIVELY PROGRAMMED TRAINING UNITS WRITTEN TO SUPPLEMEN TRAINEES' ON-THE-JOB EXPERIENCES. FIRST LINE SUPERVISO ADMINISTERS TRAINING IN CAPACITY OF "COURSE MANAGER". INSTRUCTOR'S MATERIALS FURNISHED FREE WITH EACH UNIT.

AVAILABILITY: TECHNICAL PUBLISHING CO. DEPT. 5, PLAN ENGINEERING TRAINING, 1301 S GROVE AVE. BARRINGTON, IL 6001 ($24.75)

INSTITUTION NAME: TECHNICAL PUBLISHING CO.

IRIS ACCESSION NUMBER: EW001867

TITLE: STYLES OF LEADERSHIP: DECISION GAME.

DESCRIPTOR: AUDIOVISUAL AIDS; *DECISION MAKING; *GAMES *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; POS SECONDARY EDUCATION; SELF PACED INSTRUCTION; *SUPERVISION

DESCRIPTIVE NOTE: 16P. COMPANION FILM: "STYLES O LEADERSHIP" (EW001212); 12 PAGE INSTRUCTOR'S GUIDE INCLUDED

ABSTRACT: DESIGNED WITH EFFECTIVE AND STIMULATING TRAININ IN MIND. IT COMBINES SELF-INSTRUCTIONAL MATERIALS WIT GROUP EXERCISES AND GRAPHICS TO PROVIDE THE USER WITH ONE O THE MOST UNIQUE LEADERSHIP TRAINING TOOLS AVAILABLE OUTLINES THE THREE MAJOR ELEMENTS TO CONSIDER IN CHOOSING LEADERSHIP STYLE; THE MANAGER'S OWN INCLINATIONS, TH DESIRES OF THE GROUP AND THE REQUIREMENTS OF TH ORGANIZATION.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SA VINCENTE BLVD., BEVERLY HILLS, CA 90211 (10 FOR $25.00)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW001868

TITLE: WELDING OXYACETYLENE.

DESCRIPTOR: ENGINEERING TECHNICIANS; *EQUIPMENT *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS MANUALS; *POST SECONDARY EDUCATION; *WELDING

DESCRIPTIVE NOTE: ORDER NO. 11; 4 HRS. AVERAGE INSTRUCTIO TIME

ABSTRACT: TYPES OF OXYACETYLENE FLAMES; EQUIPMENT INCLUDING WELDING TORCH, TIPS, HOSES, AND PRESSUR REGULATORS; GAS CYLINDERS; CYLINDER AND WORKING PRESSURES AND OPERATING PROCEDURES SUCH AS OPENING CYLINDERS ADJUSTING WORKING PRESSURES, LIGHTING A TORCH, ADJUSTING TH FLAME, AND SHUTTING OFF THE TORCH. A PRACTICAL PERFORMANC TEST TO MEASURE THE ABILITY OF THE TRAINEE, AND A CHECK LIS FOR THE EXAMINER, ARE INCLUDED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($9.15)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001869

TITLE: SHEET METAL - LAYOUT PATTERNS.

DESCRIPTOR: *CONSTRUCTION; EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS *MAINTENANCE; MANUALS; *POST SECONDARY EDUCATION; *SHEE METAL

DESCRIPTIVE NOTE: ORDER NO. 13; 18 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: BASIC GEOMETRIC CONSTRUCTIONS INVOLVED IN LAYING OUT PATTERNS FOR SOME OF THE MORE COMMON SHEET METAL SHAPES CONICAL TRANSITION PIECE, 4-SECTION ELBOW, DRIP PANS, AND RECTANGULAR DUCT SECTIONS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($31.20)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001870

TITLE: THERMAL INSULATION - PIPE AND FITTINGS.

DESCRIPTOR: *AIR CONDITIONING; EQUIPMENT; *HEATING INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS *INSULATION; MAINTENANCE; MANUALS; *PIPES; PLUMBING; *POS SECONDARY EDUCATION; *THERMAL INSULATION

DESCRIPTIVE NOTE: ORDER NO. 14; 25 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: PRINCIPLES OF FLOW OF HEAT AND PURPOSE OF THERMAL INSULATION; PROPERTIES OF COMMON INSULATING MATERIALS; ACCESSORY MATERIALS; SELECTION OF MATERIALS; TECHNIQUES FOR APPLYING HIGH, MEDIUM, AND LOW TEMPERATURE INSULATION, INCLUDING VARIOUS TYPES OF FINISHES AND PROTECTIVE COVERINGS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($32.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001871

TITLE: THERMAL INSULATION - EQUIPMENT.

DESCRIPTOR: *AIR CONDITIONING; EQUIPMENT; HEAT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *INSULATION; *MAINTENANCE; MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *TANKS; *THERMAL INSULATION

DESCRIPTIVE NOTE: ORDER NO. 15; 25 HRS. AVERAGE INSTRUCTION TIME. SIX FIELD EXERCISES AND EXAMINER'S SCORING SHEET

ABSTRACT: INCLUDES: APPLICATION TECHNIQUES FOR ROUND FLAT-TOP TANKS, TANKS WITH FLAT SIDES, AND HORIZONTAL CYLINDRICAL TANKS WITH DISHED HEADS, PUMPS, AND DUCTS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($32.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001872

TITLE: DRILLS - REGRINDING AND MODIFICATION.

DESCRIPTOR: *DRILLS; *EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; MANUALS; *MECHANICAL EQUIPMENT; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 17; 3 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: REGRINDING OF DRILLS, POINT MODIFICATION FOR HARD AND SOFT MATERIALS, WEB THINNING, CHIP BREAKERS, AND A BRIEF COVERAGE OF CARBIDE DRILLS. TRAINEE IS REQUIRED TO REGRIND REGULAR POINT GENERAL PURPOSE DRILLS TO FLAT AND LONG POINTS FOR DRILLING HARD AND SOFT MATERIALS; TO THIN THE WEB ON WORN DRILLS FOR EASIER DRILLING; AND TO USE CHIP BREAKERS FOR DUCTILE AND SOFT MATERIALS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($9.15)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001873

TITLE: SOLID HAND REAMERS.

DESCRIPTOR: *EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; MANUALS; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *REAMERS

DESCRIPTIVE NOTE: ORDER NO. 18; 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: SELECTION OF PROPER SIZE, FLUTE STYLE, AND TYPE OF REAMER TO HAND REAM HOLES WITH OR WITHOUT INTERRUPTED SURFACES; SELECTION OF PILOT DRILLS AND REAMER DRILLS FOR HOLES THAT WILL BE REAMED; STOCK REMOVAL ALLOWANCES, FEEDS, LUBRICANTS, AND PROPER METHOD OF USING A HAND REAMER; BASIC REAMER NOMENCLATURE; HOW TO INSPECT A REAMER; AND HOW TO MEASURE THE ACTUAL SIZE OF A REAMER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001874

TITLE: EXPANSION HAND REAMERS.

DESCRIPTOR: *EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *MANUALS; *MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *REAMERS

DESCRIPTIVE NOTE: ORDER NO. 19; 2 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: WHEN TO USE AN EXPANSION REAMER, HOW TO SELECT THE CORRECT SIZE AND STYLE, HOW TO ADJUST AND MEASURE AN EXPANSION REAMER, AND HOW TO ADJUST STOCK REMOVAL ALLOWANCE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NOMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001875

TITLE: SINGLE STAGE STEAM JET VACUUM PUMPS - OPERATION.

DESCRIPTOR: *EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *JET PUMPS; MAINTENANCE; *MANUALS; MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *PUMPS

DESCRIPTIVE NOTE: ORDER NO. 20; 2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INDENTIFICATION OF PARTS AND THE STARTUP AND SHUTDOWN PROCEDURES FOR SINGLE STAGE STEAM JET VACUUM PUMPS. FLOW OF VAPOR, STEAM AND QUENCH WATER THROUGH A STEAM JET AND STEAM JET SYSTEM ARE INCLUDED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001876

TITLE: SINGLE STATE STEAM JET VACUUM PUMPS TROUBLESHOOTING.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *JET PUMPS; *MAINTENANCE; *POST SECONDARY EDUCATION; *PUMPS; INDUSTRIAL TECHNOLOGY; INDUSTRY; MANUALS; MECHANICAL EQUIPMENT

DESCRIPTIVE NOTE: ORDER. 21; 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: COVERS THE PROCEDURE FOR TROUBLE SHOOTING A SINGLE STAGE STEAM JET SYSTEM. IT DEALS WITH THE MOST COMMON TYPES OF TROUBLES AND AN EIGHT-STEP PROCEDURE FOR FINDING AND CORRECTING THEM. A REFERENCE SHEET COVERING THE EIGHT-POINT PROCEDURE IS INCLUDED FOR THE TRAINEE TO KEEP AND USE ON HIS JOB.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001877

TITLE: LEVEL MEASUREMENT - GAGE GLASSES AND FLOATS.

DESCRIPTOR: *FLOATS; *GAGES; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT; *PHYSICS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 33; 2 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: BASIC PHYSICS, TERMS, AND OPERATION OF LEVEL SIGHT AND FLOAT INSTRUMENTS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($17.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001878

TITLE: INTRODUCTION TO CHROMATOGRAPHY.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHROMATOGRAPHY; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; ANALYTICAL TECHNIQUES; CHEMISTRY; INDUSTRY; MANUALS

DESCRIPTIVE NOTE: ORDER NO. 47; 16 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES THE ADSORPTION AND ABSORPTION OF SOLIDS AND LIQUIDS; THE COMPONENTS OF A SAMPLING SYSTEM; A COLUMN'S DETECTORS AND THEIR CONSTRUCTION; CARRIER GASES; GAS AND LIQUID SAMPLES; THERMOCONDUCTIVITY; RETENTION TIME OF SAMPLE COMPONENTS; TIMER AND ATTENUATOR USES; BAR GRAPH AND SPECTRUM CHARTS; MEMORY DEVICES; AND STEP-BY-STEP CONSTRUCTION OF A SIMPLE CHROMATOGRAPHIC ANALYZER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 $28.00)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001879

TITLE: COLORIMETER OPERATION.

DESCRIPTOR: ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHEMISTRY; *COLORIMETRY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 48; 16 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: COLORIMETER INTRODUCTION AND ARRANGEMENT OF THE COLORIMETER TOP; HOW TO PERFORM THE METER ZERO AND GRID CURRENT CHECKS; HOW TO STANDARDIZE THE COLORIMETER; HOW TO MAKE A COLOR MEASUREMENT; USE OF COLORIMETER ACCESSORY EQUIPMENT AND SIMPLE MAINTENANCE PROCEDURES; AND PROBLEMS COMMONLY ENCOUNTERED IN USING A COLORIMETER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($28.00)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001880

TITLE: MULTISTAGE STEAM JET VACUUM PUMPS - OPERATION.

DESCRIPTOR: *EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MAINTENANCE; MANUALS; *MECHANICAL EQUIPMENT; *OPERATIONS; *POST SECONDARY EDUCATION; *PUMPS

DESCRIPTIVE NOTE: ORDER NO. 57; 6 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: COVERS THE OPERATION OF MULTISTAGE NONCONDENSING AND BAROMETRIC CONDENSING STEAM JET VACUUM PUMPS. IDENTIFICATION OF THE MAJOR PARTS OF THESE SYSTEMS AS WELL AS THE FLOW OF VAPOR, STEAM, AND WATER IS COVERED. STARTUP AND SHUTDOWN PROCEDURES FOR NONCONDENSING AND BAROMETRIC CONDENSING SYSTEMS ARE ALSO INCLUDED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($12.70)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001881

TITLE: SHEET METAL - EDGINGS, NOTCHING AND SEAMS.

DESCRIPTOR: EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MANUALS; MECHANICAL EQUIPMENT; *POST SECONDARY EDUCATION; *SHEET METAL; *SHOP

DESCRIPTIVE NOTE: ORDER NO. 62; 12 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INTENDED FOR THE APPRENTICE WHO HAS HAD LITTLE OR NO PRACTICAL EXPERIENCE IN THE SHEET METAL SHOP. HE WILL LEARN HOW TO IDENTIFY THE VARIOUS COMMON TYPES OF EDGINGS AND SEAMS BY NAME AND FUNCTION, HOW THEY ARE FORMED, AND THE HOW AND WHY OF THE NOTCHING PROCEDURES REQUIRED TO MAKE THEM. THE SPECIAL TOOLS AND FIXTURES USED IN THE SHOP FOR THE FORMING OF EDGINGS, NOTCHES, AND SEAMS ARE NOT TREATED IN THIS COURSE.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($23.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001882

TITLE: TEMPERATURE MEASUREMENT - FILLED THERMAL SYSTEMS.

DESCRIPTOR: EQUIPMENT; INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MANUALS; *MEASUREMENT; *POST SECONDARY EDUCATION; *TEMPERATURE; *THERMOMETERS

DESCRIPTIVE NOTE: ORDER 67; 4 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: TEACHES FOUR CLASSES OF FILLED THERMAL SYSTEMS: LIQUID, MERCURY, VAPOR, AND GAS. INCLUDES: THERMAL SYSTEM SPEED OF RESPONSE; AMBIENT TEMPERATURE; FULL AND CASE COMPENSATION; AND TEMPERATURE TRANSMITTER (INPUT AND OUTPUT).

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($9.15)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001883

TITLE: MULTISTAGE STEAM JET VACUUM PUMPS: TROUBLESHOOTING.

DESCRIPTOR: *EQUIPMENT; INDUSTRY; *INSTRUCTIONAL MATERIALS; *JET PUMPS; *MAINTENANCE; *OPERATIONS (PLANT); *PUMPS; POST SECONDARY EDUCATION; *TROUBLESHOOTING; VACUUM PUMPS

ABSTRACT: COVERS AN ECONOMICAL PROCEDURE FOR LOCATING, IDENTIFYING AND CORRECTING COMMON PROBLEMS IN METAL MULTISTAGE BAROMETRIC CONDENSING OR NONCONDENSING STEAM JET SYSTEMS. THE PROCEDURE INVOLVES THE USE OF A "GUIDE" OR OUTLINE AND IT IS AN EXTENSION OF THE SINGLE STAGE TROUBLESHOOTING PROCEDURE WHICH WAS TAUGHT IN PROGRAMMED INSTRUCTION COURSE NO. 21 (EPAW01876). RETURN OF THE SYSTEM TO PRODUCTION IN MINIMUM TIME IS EMPHASIZED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($20.35)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001884

TITLE: ADJUSTABLE HAND REAMERS.

DESCRIPTOR: *EQUIPMENT; INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; POST SECONDARY EDUCATION; *REAMERS

DESCRIPTIVE NOTE: (NO. 77) 5 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: SELECTION OF THE PROPER REAMER FOR THE JOB, AND THE USE, ADJUSTMENT AND CARE OF ADJUSTABLE REAMERS FOR DIFFERENT TYPES OF WORK.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001885

TITLE: CALIBRATION ADJUSTMENTS: ZERO, SPAN AND LINEARITY.

DESCRIPTOR: *CALIBRATION ADJUSTMENTS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MEASUREMENT; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (NO. 85) 8 1/2 HRS. AVERAGE INSTRUCTI(TIME

ABSTRACT: BUILDS A PRACTICAL KNOWLEDGE OF OUTPUT ERR(CAUSED BY ZERO SHIFT, SPAN DIFFERENCE AND NON-LINEARIT(TEACHES DESIRE CURVE OF OUTPUT; AND ILLUSTRATES HYSTERES(ERROR CURVE. THE TRAINEE WILL LEARN HOW TO CALIBRATE ONE TWO, AND THREE POINTS; HOW TO PLOT OUTPUT ERROR CURVES; A(HOW TO ADJUST ZERO, SPAN, AND LINEARITY.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($17.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001886

TITLE: TEMPERATURE MEASUREMENT: STANDARDS AND CALIBRATION

DESCRIPTOR: EQUIPMENT; *INSTRUCTIONAL MATERIAL *INSTRUMENTATION; *MEASUREMENT; PHYSICS; POST SECONDA EDUCATION; STANDARDS; *TEMPERATURE; *THERMOMETERS

DESCRIPTIVE NOTE: (NO. 100) 4 HRS. AVERAGE INSTRUCTION TI

ABSTRACT: INCLUDES: THE TWO FUNDAMENTAL FIXED POINT FIXED POINTS, SCALE DIVISION, TRUE VALUE, AND INDICAT VALUE; SCALE TERMS SUCH AS SCALE ACCURACY, SENSITIVITY, A REPRODUCIBILITY; U.S. BUREAU OF STANDARDS, REFEREN STANDARD (CERTIFIED THERMOMETERS), WORKING STANDARD, A SENSITIVITY; SCALE CORRECTIONS; CALIBRATION BATHS SUCH TRI AND DRY ICE, ICE, WATER, STEAM, OIL AND SALT; A CALIBRATION OF A GLASS THERMOMETER, INDUSTRIAL THERMOMETE AND BIMETAL THERMOMETER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG WILMINGTON, DE 19898 ($8.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001887

TITLE: DISC STEAM TRAPS.

DESCRIPTOR: *DISC STEAM TRAPS; *EQUIPMENT; *INDUSTR *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS (PLANT POST SECONDARY EDUCATION; PIPE FITTINGS; *STEAM TRAPS

DESCRIPTIVE NOTE: (NO. 104) 2 HRS. AVERAGE INSTRUCTION TI

ABSTRACT: HOW TO DISTINGUISH A DISC TRAP FROM FIVE MAJ TYPES OF TRAPS. IDENTIFYING PARTS OF THE TRAP, A(EXPLAINING THE SEQUENCE OF STEPS IN THE OPERATING CYCLE. THE STEPS FOR REPAIR OF THE TRAP IN THE FIELD AND IN T(SHOP ARE ALSO DISCUSSED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001888

TITLE: THERMOSTATIC STEAM TRAPS.

DESCRIPTOR: EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIAL(*INSTRUMENTATION; *MAINTENANCE; *PIPE FITTINGS; POS SECONDARY EDUCATION; *STEAM TRAPS; *THERMOSTATS

DESCRIPTIVE NOTE: (NO. 105) 2 HRS. AVERAGE INSTRUCTION TI(

ABSTRACT: HOW TO DISTINGUISH A THERMOSTATIC STEAM TRAP FR(FIVE MAJOR TYPES OF TRAPS. IDENTIFIES PARTS OF THE TRA(AND EXPLAINS THE SEQUENCE OF STEPS IN THE OPERATING CYCLE STEPS FOR REPAIR OF THE TRAP IN THE FIELD AND IN THE SH(ARE INCLUDED. AN OPTIONAL REPAIR PROCEDURE FOR THE USE OF "CAGE TYPE" OPERATING ELEMENT IS ALSO INCLUDED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001889

TITLE: FLOAT THERMOSTATIC STEAM TRAPS.

DESCRIPTOR: EQUIPMENT; *FLOAT THERMOSTATIC STEAM TRAP(*INDUSTRY; INSTRUCTIONAL MATERIALS; *INSTRUMENTATIO(*MAINTENANCE; POST SECONDARY EDUCATION; *PIPE FITTING(*STEAM TRAPS

DESCRIPTIVE NOTE: (NO. 106) 1 HR. AVERAGE INSTRUCTION TIM(

ABSTRACT: HOW TO DISTINGUISH A FLOAT-THERMOSTATIC STE(TRAP FROM FIVE MAJOR TYPES OF TRAPS. IDENTIFIES PARTS (THE TRAP, AND EXPLAINS THE SEQUENCE OF STEPS IN T(OPERATING CYCLE. THE STEPS FOR REPAIR OF THE TRAP IN T(FIELD AND IN THE SHOP ARE INCLUDED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($4.10)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001890

TITLE: INVERTED BUCKET STEAM TRAPS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MAINTENANCE; *PIPE FITTINGS; POST SECONDARY EDUCATION; *STEAM TRAPS

DESCRIPTIVE NOTE: (NO. 107) 1 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HOW TO DISTINGUISH AN INVERTED BUCKET STEAM TRAP FORM FIVE MAJOR TYPES OF TRAPS. IDENTIFIES PARTS OF THE TRAP, AND EXPLAINS THE SEQUENCE OF STEPS IN THE OPERATING CYCLE. THE STEPS FOR REPAIR OF THE TRAP IN THE FIELD AND IN THE SHOP ARE INCLUDED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($5.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001891

TITLE: TEMPERATURE MEASUREMENT: THERMOCOUPLE THEORY.

DESCRIPTOR: *ELECTRICAL SYSTEMS; INDUSTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT; POST SECONDARY EDUCATION; *TEMPERATURE; *THERMOCOUPLES

DESCRIPTIVE NOTE: (NO. 110) 14 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: DISSIMILAR WIRES; REFERENCE JUNCTION; MEASURING JUNCTION; THERMOCUPLE VOLTAGE DIFFERENCE; PLUS AND MINUS MILLIVOLTS; COMMON TYPES AND SIZES OF THERMOCUPLES; USE OF TEMP.-MILLIVOLT TABLES; SERIES AND PARALLEL CONNECTED THERMOCUPLES; USE OF EXTENSION WIRE AND ITS LIMITATIONS; THERMOCOUPLE TEMPERATURE LIMITS; WIRE POLARITY; NORMAL AND REVERSE POLARITY; REFERENCE JUNCTION TABLE CORRECTIONS; USE OF COPPER WIRE; GROUNDS; AND TYPE S (TEMP. STANDARD).

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($25.30)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001892

TITLE: IMPULSE STEAM TRAPS.

DESCRIPTOR: *EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *PIPE FITTINGS; POST SECONDARY EDUCATION; *STEAM TRAPS

DESCRIPTIVE NOTE: (NO. 111) 2 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: HOW TO DISTINGUISH AN IMPULSE STEAM TRAP FROM FIVE MAJOR TYPES OF TRAPS. IDENTIFIES PARTS OF THE TRAP, AND EXPLAINS THE SEQUENCE OF STEPS IN THE OPERATING CYCLE. STEPS FOR REPAIR OF THE TRAP IN THE FIELD AND IN THE SHOP ARE INCLUDED.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($7.40)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001893

TITLE: PEDESTAL AND BENCH GRINDERS.

DESCRIPTOR: *EQUIPMENT; *GRINDERS; INDUSTRY; INSTRUCTIONAL MATERIALS; *MAINTENANCE; POST SECONDARY EDUCATION; SAFETY

DESCRIPTIVE NOTE: (NO. 115) 4 1/2 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: IDENTIFICATION OF THE TYPES OF GRINDERS AND THEIR PARTS; INSPECTION OF GRINDER GUARDS, WORK REST, AND GRINDING WHEEL; SAFETY PRECAUTIONS; DISASSEMBLY AND ASSEMBLY AND ASSEMBLY OF GRINDING WHEEL; AND CHECKOUT OF GRINDER.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($10.90)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001894

TITLE: PRINCIPLES OF DISTILLATION.

DESCRIPTOR: *BOILERS; CHEMISTRY; *DISTILLATION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; *OPERATIONS (PLANT); POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (NO. 116) 6 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: HIGH AND LOW BOILERS; LIQUID-VAPOR COMPOSITION TABLES; COMPOSITION OF BOILING SOLUTIONS, SINGLE STAGE BATCH, AND CONTINUOUS DISTILLATION; MASS BALANCE AROUND A COLUMN; USE OF TEMPERATURE-COMPOSITION DIAGRAMS; EFFECT OF PRESSURE ON BOILING AND CONDENSING TEMPERATURES; AND TEMPERATURE AND PRESSURE INDICATORS AND RECORDERS FOR THE DISTILLATION PROCESS.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($12.70)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001895

TITLE: WELDING: TUNGSTEN INERT GAS (TIG).

DESCRIPTOR: EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *METAL WORK; POST SECONDARY EDUCATION; *WELDING

DESCRIPTIVE NOTE: (NO. 122) 13 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: DESCRIBES STEPS TO BE TAKEN TO PREPARE A TIG TORCH: SET THE POWER SUPPLY UNIT, SET THE INERT GAS FLOW, PUT ON PROTECTIVE EQUIPMENT, STRIKE AND HOLD A TIG ARC, FORM A WELD PUDDLE AND MOVE IT A SHORT DISTANCE AND THEN SHUT DOWN THE EQUIPMENT.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($23.85)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001896

TITLE: DOWTHERM HEATING.

DESCRIPTOR: AIR CONDITIONING; EQUIPMENT; *HEATING; HEATING SYSTEMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *PLUMBING; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (NO. 124) 4 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: THERMAL AND PHYSICAL PROPERTIES OF DOWTHERM; VAPOR-PHASE HEAT TRANSFER, DECOMPOSITION, AND HAZARDS. TYPES OF HEATING SYSTEMS: COMPONENTS AND BASIC FUNCTIONING.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG., WILMINGTON, DE 19898 ($9.15)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001897

TITLE: DISTILLATION: PRACTICAL DISTILLATION.

DESCRIPTOR: *DISTILLATION; *INDUSTRY; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *TEMPERATURE

DESCRIPTIVE NOTE: (NO. 126) 8 HRS. AVERAGE INSTRUCTION TIME

ABSTRACT: INCLUDES: A REVIEW OF TEMPERATURE-COMPOSITION DIAGRAM USE; CALANDRIA AND HEAT EXCHANGERS; COLUMN CONTROL SYSTEM; EFFECT OF BASE TEMPERATURE CHANGES ON PRODUCT STREAMS; EFFECT OF FEED RATE CHANGES ON PRODUCT STREAMS; EFFECT OF FEED COMPOSITION CHANGES ON PRODUCT STREAMS; IDENTIFICATION OF TYPES OF TRAYS; COLUMN TEMPERATURE PROFILE; INTERNAL AND EXTERNAL REFLUX; AND EFFECT OF REFLUX RATION ON PRODUCT COMPOSITION.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC., EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLD., WILMINGTON, DE 19898 ($15.60)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001905

TITLE: RIGGING HANDBOOK.

DESCRIPTOR: *CONSTRUCTION; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *RIGGING; *SAFETY; INDUSTRY; MANUALS

DESCRIPTIVE NOTE: 70P. ORDER NO. 162; POCKET SIZED HANDBOOKS AVAILABLE IN LOTS OF 50 COPIES FO $50.00

ABSTRACT: DESIGNED AS A REFERENCE TO ASSIST IN SAFELY APPLYING THE BASIC RIGGING EQUIPMENT USED IN CONSTRUCTION AND MATERIALS HANDLING WORK. TOPICS COVERED INCLUDE RIGGING TERMS AND DEFINITIONS, ROPES, TACKLE, HOOKS, CHAIN FALLS, HOISTS, JACKS, ROLLERS, MOTOR CRANES, MEASURES, WEIGHTS OF MATERIALS, WIND FORCE, STRESS IN DERRICK GUYS, ETC. ALSO INCLUDED ARE MANY TABLES ON STRENGTHS OF WIRE ROPE, WIRE ROPE CLIPS, SHEAVE GROOVE TOLERANCES, STRENGTHS OF FIBER ROPE AND HOOKS, STANDARD HAND SIGNALS, ETC.

AVAILABILITY: E. I. DUPONT DE NEMOURS & COMPANY, INC. EDUCATION & APPLIED TECHNOLOGY DIVISION, BRANDYWINE BLDG. WILMINGTON, DE 19898 ($50.00)

INSTITUTION NAME: E. I. DUPONT DE NEMOURS & COMPANY, INC.

IRIS ACCESSION NUMBER: EW001916

PUBLICATION DATE: 75

TITLE: WATER - 1975.

DESCRIPTOR: CHEMICAL TREATMENT; *DESIGN; ENGINEERING; *INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; *OPERATIONS; POST SECONDARY EDUCATION; SYMPOSIA; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: ORDER NO S-151; AICHE MEMBER COST $9.00

ABSTRACT: CONSISTS OF PAPERS DESCRIBING THE MOST ADVANCED PROCESSES AND TECHNIQUES FOR WATER POLLUTION CONTROL AND WASTEWATER RENOVATION PRESENTED AT FOUR NATIONAL MEETINGS OF THE AICHE WITHIN THE PAST YEAR. TOPICS INCLUDE PAPERS DEALING WITH ZERO DISCHARGE AND THE ADVANCED CHEMICAL

ENGINEERING PROCESSES THAT CAN ATTAIN IT.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001917

PUBLICATION DATE: 75

TITLE: TRACE CONTAMINANTS IN THE ENVIRONMENT.

DESCRIPTOR: *AIR POLLUTION CONTROL; ECONOMICS; *ENVIRONMENT; INSTRUCTIONAL MATERIALS; LAWS; METALS; *POLLUTANTS; POST SECONDARY EDUCATION; REGULATIONS; *TRACE METALS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 70P. ORDER NO S-149; AICHE MEMBER COST: $5.00

ABSTRACT: FUNDAMENTAL AND APPLIED STUDIES ON AEROSOLS AND AIR POLLUTION; MOVEMENTS OF THE IMPORTANT CONTAMINANTS THROUGH THE ATMOSPHERE, HYDROSPHERE, AND LITHOSPHERE; EFFECT OF TRACE METALS ON MAN AND ENVIRONMENT; ECONOMIC AND REGULATORY ASPECTS OF TRACE ELEMENTS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001919

PUBLICATION DATE: 75

TITLE: ADSORPTION AND ION EXCHANGE.

DESCRIPTOR: *ADSORPTION; ANALYTICAL TECHNIQUES; *CHEMISTRY; CHROMATOGRAPHY; INDUSTRIAL TECHNOLOGY; INSTRUCTIONAL MATERIALS; *ION EXCHANGE; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; RESEARCH; *SYMPOSIA

DESCRIPTIVE NOTE: ORDER NO. S-152; AICHE MEMBER COST: $6.00

ABSTRACT: COMPENDIUM OF PAPERS PRESENTED AT FOUR SEPARATE SYMPOSIA SPONSORED BY THE ADSORPTION/ION EXCHANGE COMMITTEE AT FOUR AICHE MEETINGS. THE PRIMARY FUNCTION OF ALL THESE SYMPOSIA WAS TO PRESENT ORIGINAL EXPERIMENTAL RESULTS, THEORETICAL DEVELOPMENTS, AND NEW PROCESSES IN THE FIELD OF ADSORPTION AND ION EXCHANGE.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001920

PUBLICATION DATE: 75

TITLE: WATER - 1974, PART 1.

DESCRIPTOR: ECONOMICS; *ENVIRONMENT; FLOCCULATION; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; OSMOSIS; *POLLUTION; POST SECONDARY EDUCATION; SEDIMENTATION; *SYMPOSIA; *WASTE DISPOSAL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 400P. ORDER NO. S-144; AICHE MEMBER COST: $8.00

ABSTRACT: PAPERS CONCERNING INDUSTRIAL PROBLEMS COMPILED FROM AICHE SYMPOSIA. TOPICS INCLUDE SOCIO-ECONOMIC IMPACT OF POLLUTION CONTROL, FLOCCULATION AND SEDIMENTATION, REVERSE OSMOSIS, ENZYMES AND WASTEWATER TREATMENT, COLD CLIMATE WASTEWATER TREATMENT, OIL SPILLS, ACTIVATED CARBON REGENERATION, AND PROBLEMS FOR CHE STUDENTS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001921

PUBLICATION DATE: 75

TITLE: WATER - 1974, PART 2.

DESCRIPTOR: INSTRUCTIONAL MATERIALS; *LAND APPLICATION; *MUNICIPAL WASTES; *NUTRIENT REMOVAL; POLLUTION; POST SECONDARY EDUCATION; *SYMPOSIA; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *NUTRIENTS

DESCRIPTIVE NOTE: 400P. ORDER NO. S-145; AICHE MEMBER COST: $8.00

ABSTRACT: PAPERS CONCERNING MUNICIPAL WASTEWATER TREATMENT. TOPICS INCLUDED POLLUTANT SOURCES AND EFFECTS, NATURAL ECOSYSTEMS, PHOSPHORUS AND NITROGEN REMOVAL, OPTIMIZATION OF POLLUTION CONTROL PLANTS, MUNICIPAL WATER AND WASTEWATER PROBLEMS, EPA-DC PILOT PLANT STUDIES, LAND DISPOSAL OF WASTEWATER, LANDFILL LEACHATE, AND AUTOMATION.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001922

PUBLICATION DATE: 77

TITLE: PETROLEUM PETROCHEMICAL INDUSTRY AND THE ECOLOGICAL CHALLENGE.

DESCRIPTOR: *ABSTRACTS; ECONOMICS; *INDUSTRIAL WASTES; INDUSTRY; *OIL SPILLS; *PETROLEUM INDUSTRY; *POLLUTANTS (INDUSTRIAL); POLLUTION; POST SECONDARY EDUCATION; SYMPOSIA WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 210P. ORDER NO. S-135; AICHE MEMBER COS : $6.50

ABSTRACT: EXTENDED ABSTRACTS OF OVER 100 PAPERS PRESENTE AT THE 1973 NEW ORLEANS MEETING. ECONOMICS, MARKETING PROCESS TECHNOLOGY, PLANT OPERATIONS, PETROLEUM PRODUCTION.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 34 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

IRIS ACCESSION NUMBER: EW001923

PUBLICATION DATE: 72

TITLE: WATER - 1971.

DESCRIPTOR: ACTIVATED SLUDGE; *INDUSTRIAL WASTE INSTRUCTIONAL MATERIALS; OPERATIONS; POST SECONDAR EDUCATION; SLUDGE; *SYMPOSIA; *WASTE DISPOSAL; *WASTEWATE TREATMENT; *WATER POLLUTION CONTROL; *WATER RESOURCES

DESCRIPTIVE NOTE: 536P. ORDER NO. S-124; AICHE MEMBE COST: $9.00

ABSTRACT: COVERS MOST OF THE SYMPOSIUM SESSIONS OF T AICHE FOR 1971 ON COALESCENCE, ACTIVATED SLUDGE, LI PRECIPITATION, BY-PRODUCT RECOVERY, ELECTROPHORESIS, REVER OSMOSIS, HEAT TRANSFER, AND BUBBLE FRACTIONATION, AS WELL REPRESENTATIVE PAPERS ON ECOLOGICAL MODELING, OIL SPILLS AND MINERAL RECOVERY, REPORTS FROM "POLLUTION SOLUTI GROUPS" AND AN IN-DEPTH DISCUSSION OF THE MEASUREMENT WASTEWATER PARAMETERS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 3 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEER

IRIS ACCESSION NUMBER: EW001924

PUBLICATION DATE: 69

TITLE: WATER - 1969.

DESCRIPTOR: *LABORATORY TECHNIQUES; *POLLUTION; *SYMPOSI *WASTE DISPOSAL; *WATER POLLUTION CONTROL; ENVIRONMENT; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATIO WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 315P. ORDER NO. S-97; AICHE MEMBER COS $8.00

ABSTRACT: ULTIMATE DISPOSAL OF WASTEWATER, WASTE HEAT A THE WATER ENVIRONMENT, INDUCED RIVER AERATION, RECE ADVANCES IN WATER TREATMENT, OIL SPILLAGE CONTROL, SAVI AMERICA'S LAKES. TECHNICAL MATERIAL ON SYNTHETIC RESINO ADSURBENTS, CONTINUOUS ION EXCHANGE, DIATOMITE FILTRATIO REVERSE OSMOSIS, ELECTRODIALYSIS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 3 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEER

IRIS ACCESSION NUMBER: EW001925

PUBLICATION DATE: 68

TITLE: WATER - 1968.

DESCRIPTOR: DESALINATION; INSTRUCTIONAL MATERIALS; I EXCHANGE; MODELS; *MUNICIPAL WASTES; *POLLUTION; PO SECONDARY EDUCATION; *SYMPOSIA; SYSTEMS ANALYSIS; *WAT POLLUTION CONTROL; *WATER QUALITY; *DEMINERALIZATION

DESCRIPTIVE NOTE: 339P. ORDER NO. S-90; AICHE MEMBER COS $8.00

ABSTRACT: MATHEMATICAL TOOLS FOR MEASUREMENT OF WAT QUALITY AND POSSIBLE CONTROL OF POLLUTION (REGION MODELING), TRANSPORT OF WASTE IN FLUIDS, APPLICATION SYSTEMS THEORY TO POLLUTION PROBLEM, ADVANCES AND PROSPEC IN LARGE-SCALE DESALINATION, ANALYSIS OF CAPITAL A OPERATING COST FOR A TYPICAL MUNICIPAL WASTEWATER TREATME PLANT, ION EXCHANGE, REVERSE OSMOSIS MEMBRANES, REUSE PULP AND PAPER AND BEET SUGAR INDUSTRIES.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 3 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001947

PUBLICATION DATE: 76

TITLE: INDUSTRIAL PROCESS DESIGN FOR POLLUTION CONTRO VOLUME 5.

DESCRIPTOR: DESIGN; *INDUSTRIAL WASTES; INDUSTR *INCINERATION; INSTRUCTIONAL MATERIALS; POLLUTAN (INDUSTRIAL); POST SECONDARY EDUCATION; *RECYCLING; *WAS DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 100P. ORDER NO. W-7; AICHE MEMBER COS $7.50

ABSTRACT: FEATURES SEVEN PAPERS ON REDUCTION OF POLLUTI BY PROCESS MODIFICATION, FIVE PAPERS ON INCINERATORS A INCINERATION SYSTEMS DESIGNED FOR USE IN INDUSTRIAL PROCE PLANTS, PLUS THE SOLUTION TO A TYPICAL SET OF POLLUTI CONTROL PROBLEMS IN CHEMICAL PROCESS PLANTS. VARIO ALTERNATE APPROACHES TO ENVIRONMENTAL CONTROL ARE CONSIDER

NCLUDING BY-PRODUCT RECOVERY AND REUSE OR SALE, VARIOUS ETHODS FOR WASTEWATER PURIFICATION AND POSSIBILITIES FOR CONTRACTING FOR WASTE DISPOSAL SERVICES. PERFORMANCE AND COST DATA ON POSSIBLE ALTERNATES ARE PROVIDED.

VAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 AST 47TH STREET, NEW YORK, NY 10017 ($15.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001948

PUBLICATION DATE: 77

TITLE: DEVELOPMENTS IN PHYSICAL ADSORPTION.

ESCRIPTOR: *ADSORPTION; *CHEMISTRY; *DESIGN; *INDUSTRIAL ECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; *PHYSICS; OST SECONDARY EDUCATION; SIMULATIONS; WASTE DISPOSAL; ASTEWATER TREATMENT

ESCRIPTIVE NOTE: 121P. ORDER NO. S-96; AICHE MEMBER COST: 5.00

BSTRACT: PORE STRUCTURE IN ADSORPTION AND CATALYSIS, FFECTS OF NONLINEAR EQUILIBRIUM ON ADSORPTION KINETICS, NALYSIS OF THE ADIABATIC ADSORBER, SIMULATION AND DESIGN OF DSORBER BEDS FOR SPACECRAFT, DETERMINATION OF BREAKTHROUGH URVES, PREDICTING THE DESORPTION OF NORMAL PARAFFINS FROM OLECULAR SIEVES.

VAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 AST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001949

PUBLICATION DATE: 77

TITLE: PHYSICAL ADSORPTION PROCESSES AND PRINCIPLES.

DESCRIPTOR: *ADSORPTION; *CHEMISTRY; *INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; *PHYSICS; POST SECONDARY EDUCATION; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 96P. ORDER NO. S-74; AICHE MEMBER COST : $5.00

ABSTRACT: THEORY OF ADSORPTION AS WELL AS INDUSTRIAL APPLICATIONS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($15.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001950

PUBLICATION DATE: 74

TITLE: WATER - 1973.

DESCRIPTOR: *LABORATORY TECHNIQUES; *POLLUTION; *SYMPOSIA; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; ENVIRONMENT; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; WASTEWATER TREATMENT 315P. ORDER NO. S-97; AICHE MEMBER COST: $8.00 ULTIMATE DISPOSAL OF WASTE

DESCRIPTIVE NOTE: 852P. ORDER NO. S-136; AICHE MEMBER COST: $12.00

ABSTRACT: SEVENTH ANNUAL COMPILATION OF PAPERS CONCERNING WATER POLLUTION FROM AICHE SYMPOSIA; INCLUDES MONITORING AND ANALYSIS, MODELING ENVIRONMENTAL ECOLOGICAL SYSTEMS, APPLICATION OF MODELING CONCEPTS TO WATER PURIFICATIONS PROCESSES, FLOCCULATION AND THICKENING, BIOLOGICAL TREATMENT, PHOSPHOROUS REMOVAL, REMOVAL OF HEAVY METALS FROM WATER AND WASTEWATER FOR MUNICIPAL USE, REVERSE OSMOSIS, DESALTING, TRENDS IN WASTEWATER TREATMENT IN THE PETROLEUM AND PETROCHEMICAL INDUSTRIES, THE ELECTRIC POWER INDUSTRY, AND RECOVERY OF BYPRODUCTS THROUGH WASTEWATER TREATMENTS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($20.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001951

PUBLICATION DATE: 76

TITLE: ECOSYSTEMS TECHNOLOGY - THEORY AND PRACTICE.

DESCRIPTOR: ECOLOGY; *INDUSTRIAL TECHNOLOGY; *INDUSTRIAL WASTES; INDUSTRY; INSTRUCTIONAL MATERIALS; MODELS; *POLLUTANTS (INDUSTRIAL); POST SECONDARY EDUCATION; *RECYCLING; *WASTE DISPOSAL

DESCRIPTIVE NOTE: ORDER NO. M-9; AICHE MEMBER COST: $6.00

ABSTRACT: PRESENTS EXAMPLES OF NEW TECHNOLOGY TO PROVIDE RESOURCES AND TO MINIMIZE POLLUTION SUCH AS: RECOVERY OF GLASS FURNACE EMISSIONS IN TOTALLY LOOPED SYSTEMS, THAT SHOW THAT LOW-ENERGY, EFFICIENT, AND LOW-COST SEPARATIONS ARE FEASIBLE AND THAT THE LOOP SYSTEMS CAN BE LESS COSTLY THAN ABATEMENT UNITS. THIS MONOGRAPH IS COMBINED WITH MONOGRAPH 8, "UNDERSTANDING AND CONCEIVING CHEMICAL PROCESSES", EPAW01958, IN A SINGLE VOLUME.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($15.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001952

PUBLICATION DATE: 75

TITLE: INDUSTRIAL PROCESS DESIGN FOR POLLUTION CONTROL, VOLUME 4.

DESCRIPTOR: *AIR POLLUTION CONTROL; *DESIGN; *INDUSTRIAL TECHNOLOGY; *INDUSTRIAL WASTES; INDUSTRY; INSTRUCTIONAL MATERIALS; POLLUTANTS (INDUSTRIAL); POLLUTION; POST SECONDARY EDUCATION;WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 118P. ORDER NO. W-6; AICHE MEMBER COST: $7.50

ABSTRACT: EXPANSION OF THE SERIES TO ENCOMPASS ARTICLES ON THE DESIGN OF PLANTS FOR MINIMAL AIR AS WELL AS WATER POLLUTION. THE DESIGNER IS CHALLENGED IN PROVIDING FACILITIES FOR CLEAN OPERATION DURING ALL PHASES OF THE OPERATION OF A CHEMICAL PLANT. PRESENTS CASE HISTORIES OF SOME SUCCESSFUL POLLUTION CONTROL DESIGNS. EACH ARTICLE IS FOLLOWED BY A TRANSCRIPT OF THE VALUABLE DISCUSSION BY AUTHORS AND SYMPOSIUM ATTENDEES.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($15.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001953

PUBLICATION DATE: 74

TITLE: INDUSTRIAL PROCESS DESIGN FOR WATER POLLUTION CONTROL, VOLUME 3.

DESCRIPTOR: *DESIGN; *INDUSTRIAL WASTES; *INDUSTRY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECYCLING; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 116P. ORDER NO. W-3; AICHE MEMBER COST: $7.00

ABSTRACT: CONTAINS 21 PAPERS AND DISCUSSIONS INVOLVING PROCEDURES FOR MINIMUM WASTE PRODUCTION, WASTE MATERIAL UTILIZATION, AND OPTIMUM WATER USE.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($13.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001954

PUBLICATION DATE: 73

TITLE: INDUSTRIAL PROCESS DESIGN FOR WATER POLLUTION CONTROL, VOLUME 2.

DESCRIPTOR: *DESIGN; *INDUSTRIAL WASTES; INDUSTRY; INSTRUCTIONAL MATERIALS; *OPERATIONS; *POLLUTANTS (INDUSTRIAL); POLLUTION; POST SECONDARY EDUCATION; WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 99P. ORDER NO. W-2; AICHE MEMBER COST: $6.00

ABSTRACT: PROCEEDINGS OF THE WORKSHOP DEVELOPED TO EMPHASIZE AND ENCOURAGE IMPROVEMENTS IN PLANT DESIGN AND OPERATION TO DIMINISH WATER POLLUTION. PAPERS AND DISCUSSIONS BY SYMPOSIUM PARTICIPANTS ON REDUCING WASTEWATER EFFLUENTS IN PLANTS THROUGH INITIAL DESIGN; POLLUTION CONTROL IN THE FOOD INDUSTRIES; ABATEMENT PROCEDURES FOR ACID MINE DRAINAGE; TREATING PETROLEUM REFINERY WASTES; INDUSTRY-GOVERNMENT RESEARCH FOR WATER POLLUTION CONTROL. FIVE ADDITIONAL PAPERS AND A PANEL DISCUSSION ENCOMPASS AN IN-DEPTH ANALYSIS OF COOLING TOWERS.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($12.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001955

PUBLICATION DATE: 72

TITLE: INDUSTRIAL PROCESS DESIGN FOR WATER POLLUTION CONTROL, VOLUME 1.

DESCRIPTOR: INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; LAWS; OPERATIONS; POLLUTION; POST SECONDARY EDUCATION; REGULATIONS; WASTE DISPOSAL; WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 59P. ORDER NO. W-1; AICHE MEMBER COST: $4.50

ABSTRACT: DESIGNED TO PRESENT BOTH THE GENERAL AND TECHNOLOGICAL ASPECTS OF PROCESS WASTE MANAGEMENT AND POLLUTION CONTROL.

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($9.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001957

PUBLICATION DATE: 77

TITLE: COMPLETE WATERUSE - INDUSTRY'S OPPORTUNITY.

DESCRIPTOR: BOOKS; INDUSTRIAL WASTES; *INDUSTRY; INSTRUCTIONAL MATERIALS; LAWS; *POLLUTANTS (INDUSTRIAL); POLLUTION; POST SECONDARY EDUCATION; REGULATIONS; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 736P. ORDER NO. P-5

ABSTRACT: FROM A REVIEW, JANUARY 1974, ISSUE OF PUBLIC WORKS: "THE NEW WATER LAW WITH ITS OBJECTIVE OF 'ZERO DISCHARGE' OF AQUEOUS WASTES HAS GENERATED ENORMOUS INTEREST. THE OBVIOUS ALTERNATE TO DISPOSAL OF WASTEWATER IS ITS REUSE. THERE ARE SUBSTANTIAL COSTS TO TREATMENT TO THE QUALITY REQUIRED FOR DISPOSAL ... IN MANY CASES IT WILL PROVE MORE ECONOMICAL TO TREAT FOR REUSE. THIS WORK SHOULD PROVE TO BE AN INVALUABLE REFERENCE FOR: THOSE WHO MAKE THE LAWS; FOR THOSE WHO DEVELOP THE REGULATIONS TO EXECUTE THE INTENT OF THE LAWS; AND MANY OTHERS".

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH STREET, NEW YORK, NY 10017 ($30.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW001961

PUBLICATION DATE: 78

TITLE: USE OF HIGH-PURITY OXYGEN IN THE ACTIVATED SLUDGE PROCESS, VOLUME 1.

PERSONAL AUTHOR: MCWHIRTER, J. R.

DESCRIPTOR: ACTIVATED SLUDGE; DEWATERING; *INSTRUCTIONAL MATERIALS; OPERATIONS; *OXYGEN; POST SECONDARY EDUCATION; *SECONDARY TREATMENT; *WASTE DISPOSAL; WASTEWATER SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 250P. CAT. NO. 5101EF32

ABSTRACT: CONSTITUTES A COMPREHENSIVE SOURCE OF BACKGROUND AS WELL AS CURRENT-DAY TECHNOLOGY STATUS REGARDING THE USE OF OXYGEN IN SECONDARY WASTEWATER TREATMENT. DIVIDED INTO THREE BASIC PARTS, THE FIRST SECTION CONSISTS OF BACKGROUND AND HISTORICAL INFORMATION, THE SECOND DEALS WITH CURRENT-DAY DESIGN AND APPLICATIONS, THE LAST IS ON PRESENT-DAY EXPERIENCE AND OPERATIONAL INFORMATION FROM OXYGENATION SYSTEMS CURRENTLY IN OPERATION AND UNDER DESIGN.

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($53.95)

IRIS ACCESSION NUMBER: EW001962

PUBLICATION DATE: 78

TITLE: USE OF HIGH-PURITY OXYGEN IN THE ACTIVATED SLUDGE PROCESS, VOLUME 2.

PERSONAL AUTHOR: MCWHIRTER, J. R.

DESCRIPTOR: ACTIVATED SLUDGE; DEWATERING; *INSTRUCTIONAL MATERIALS; OPERATIONS; *OXYGEN; POST SECONDARY EDUCATION; *SECONDARY TREATMENT; *WASTE DISPOSAL; WASTEWATER SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 250P. CAT. NO. 5102EF32

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($53.95)

IRIS ACCESSION NUMBER: EW001963

PUBLICATION DATE: 73

TITLE: CRC HANDBOOK OF ENVIRONMENTAL CONTROL, VOLUME 3: WATER SUPPLY AND TREATMENT.

PERSONAL AUTHOR: BOND, R. G.; STRAUB, C. P.

DESCRIPTOR: AIR POLLUTION CONTROL; *DATA; ECONOMICS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; LAWS; *POLLUTANTS; *POLLUTION; POST SECONDARY EDUCATION; TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 835P. CAT. NO. 0273EF32

ABSTRACT: BRINGS TOGETHER INFORMATION IN TABULAR FORM ON ALL ASPECTS OF ENVIRONMENTAL PROBLEMS. STARTING FROM DEFINITIONS OF POLLUTION PROBLEMS AND BASIC DATA ON POLLUTANTS, IT COVERS STATISTICS ON RATES OF POLLUTANT RELEASE TO THE ENVIRONMENT; EFFECTS OF POLLUTANTS ON MAN, PLANT AND ANIMAL LIFE, AND INANIMATE MATERIALS; AND LEGAL, TECHNICAL AND ECONOMIC ASPECTS OF CONTROL MEASURES. THE EMPHASIS IS ON DATA RATHER THAN DISCUSSION.

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($51.95)

IRIS ACCESSION NUMBER: EW001964

PUBLICATION DATE: 74

TITLE: CRC HANDBOOK OF ENVIRONMENTAL CONTROL, VOLUME 4: WASTEWATER TREATMENT AND DISPOSAL.

PERSONAL AUTHOR: BOND, R. G.; STRAUB, C. P.

DESCRIPTOR: *DATA; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTANTS; *POLLUTION; AIR POLLUTION CONTROL; ECONOMICS; LAWS; POST SECONDARY EDUCATION; TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 928P. CAT. NO. 0274EF32

ABSTRACT: BRINGS TOGETHER INFORMATION IN TABULAR FORM ON ALL ASPECTS OF ENVIRONMENTAL PROBLEMS. STARTING FROM DEFINITIONS OF POLLUTION PROBLEMS AND BASIC DATA ON POLLUTANTS, IT COVERS STATISTICS ON RATES OF POLLUTANT RELEASE TO THE ENVIRONMENT; EFFECTS OF POLLUTANTS ON MAN, PLANT AND ANIMAL LIFE, AND INANIMATE MATERIALS; AND LEGAL, TECHNICAL AND ECONOMIC ASPECTS OF CONTROL MEASURES. THE EMPHASIS IS ON DATA RATHER THAN DISCUSSION.

AVAILABILITY: CRC PRESS, INC. 2255 PALM BEACH LAKES BLVD. WEST PALM BEACH, FL 33409 ($53.95).

IRIS ACCESSION NUMBER: EW001966

PUBLICATION DATE: 74

TITLE: CHEMISTRY OF PCB'S.

PERSONAL AUTHOR: HUTZINGER, O.; AND OTHERS

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *ORGANIC CHEMISTRY; *PCB; *POLLUTANTS; POLLUTION; *POLYCHLORINATED BIPHENYLS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 269P. CAT. NO. 5040EF32

ABSTRACT: PRESENTS A COMPREHENSIVE SUMMARY OF THE CHEMISTRY OF CHLOROBIPHENYLS. INCLUDED ARE THE NOMENCLATURE, COMPOSITION OF TECHNICAL MIXTURES, SYNTHESES OF INDIVIDUAL CHLOROBIPHENYLS, CHEMICAL REACTIONS, PHOTOCHEMICAL AND METABOLIC ALTERATIONS, AND SPECTROSCOPIC PROPERTIES. DIFFERENT METHODS OF PCB ANALYSIS, ARE PRESENTED AND EVALUATED IN A SEPARATE CHAPTER.

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($49.95)

IRIS ACCESSION NUMBER: EW001967

PUBLICATION DATE: 74

TITLE: CADMIUM IN THE ENVIRONMENT, 2ND ED.

PERSONAL AUTHOR: FRIBERG, L. T.; AND OTHERS

DESCRIPTOR: *CADMIUM; *ENVIRONMENT; *HEAVY METALS; *INSTRUCTIONAL MATERIALS; *POLLUTANTS; POLLUTION; POST SECONDARY EDUCATION; *TOXICOLOGY

DESCRIPTIVE NOTE: 248P. CAT. NO. 5020EF32

ABSTRACT: UPDATES AN EARLIER REVIEW ON CADMIUM CARRIED OUT BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY AND THE DEPARTMENT OF ENVIRONMENTAL HYGIENE OF THE KAROLINSKA INSTITUTE, SWEDEN. THE WORK FOCUSES UPON INFORMATION ESSENTIAL TO THE UNDERSTANDING OF THE TOXIC ACTION OF CADMIUM AND THE RELATIONSHIP BETWEEN EXPOSURE AND EFFECTS ON HUMAN BEINGS AND ANIMALS. THROUGH CONTACT WITH A NUMBER OF JAPANESE ENVIRONMENTAL AND PUBLIC HEALTH AGENCIES, AND INDEPENDENT RESEARCHERS IT HAS BEEN POSSIBLE TO OBTAIN AND EVALUATE MUCH DATA FROM JAPAN WHICH WOULD NOT BE AVAILABLE OTHERWISE.

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($36.95)

IRIS ACCESSION NUMBER: EW001968

PUBLICATION DATE: 72

TITLE: MERCURY IN THE ENVIRONMENT.

PERSONAL AUTHOR: FRIBERG, L. T.; VOSTAL, J. J.

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MERCURY; *POLLUTANTS; POLLUTION; POST SECONDARY EDUCATION; *TOXICOLOGY

DESCRIPTIVE NOTE: 232P. CAT. NO. 5017EF32

ABSTRACT: PRESENTS AN EXTENSIVE REVIEW OF THE TOXICOLOGY OF MERCURY, AND DEALS WITH THE HEALTH ASPECTS OF CONTAMINATION OF THE GENERAL AND INDUSTRIAL ENVIRONMENT WITH METALLIC MERCURY AND DIFFERENT INORGANIC AND ORGANIC MERCURY COMPOUNDS. FOCUSES ON INFORMATION ESSENTIAL TO THE UNDERSTANDING OF THE TOXIC ACTION OF MERCURY AND THE RELATIONSHIPS BETWEEN DOSE (EXPOSURE) AND EFFECTS IN HUMAN BEINGS AND ANIMALS. GREAT EMPHASIS IS PLACED ON THE DIFFERENCES IN METABOLISM AND TOXIC ACTION BETWEEN ORGANIC AND INORGANIC COMPOUNDS AND ALSO BETWEEN COMPOUNDS WITHIN INORGANIC AND ORGANIC GROUPS.

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($38.95)

IRIS ACCESSION NUMBER: EW001969

PUBLICATION DATE: 74

TITLE: PERSISTANT PESTICIDES IN THE ENVIRONMENT, 2ND ED.

PERSONAL AUTHOR: EDWARDS, C. E.

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *PESTICIDES; *POLLUTANTS; *POLLUTION; *TOXICITY; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 170P. CAT. NO. 5011EF32

ABSTRACT: SUMMARIZES THE EXTENT OF OUR PRESENT KNOWLEDGE ON THE AMOUNTS OF RESIDUES CURRENTLY PRESENT IN THE VARIOUS COMPARTMENTS OF THE ENVIRONMENT, HOW THESE RESIDUES CAN BE DECREASED OR MINIMIZED IN THE FUTURE, THE DYNAMICS AND TRANSPORT OF PERSISTENT PESTICIDES IN THE ENVIRONMENT AND

CURRENT LEGISLATION ON THESE CHEMICALS. THE EXTENSIVE DATA QUOTED DEMONSTRATE WHERE THE LARGEST RESIDUES EXIST, HOW THEY ARE CONCENTRATED FROM THE PHYSICAL ENVIRONMENT INTO PLANTS AND ANIMALS, AND FROM LOWER ORGANISMS INTO THE HIGHER LEVELS OF FOOD CHAINS.

AVAILABILITY: CRC PRESS, INC. 2255 PALM BEACH LAKES BLVD. WEST PALM BEACH, FL 33409 ($34.50).

IRIS ACCESSION NUMBER: EW001970

PUBLICATION DATE: 73

TITLE: DIFFUSE REFLECTANCE SPECTROSCOPY IN ENVIRONMENTAL PROBLEM SOLVING.

PERSONAL AUTHOR: FREI, R. W.; MACNEIL, J. D.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHROMATOGRAPHY; *ENVIRONMENTAL RESEARCH; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; *SPECTROSCOPY

DESCRIPTIVE NOTE: 220P. CAT. NO. 5025EF32

ABSTRACT: THE KUBELKA-MUNK THEORY IS THE MOST GENERALLY ACCEPTED THEORY WITH REGARD TO DIFFUSE REFLECTANCE AND THE TRANSPARENCY OF LIGHT SCATTERING AND LIGHT ABSORBING LAYERS. THIS AND OTHER THEORIES ARE DISCUSSED, AS WELL AS THE RELEVANCE OF THE KUBELKA-MUNK THEORY TO INVESTIGATIONS ON CHROMATOGRAPHIC THIN-LAYERS. CHAPTERS ARE ALSO DEVOTED TO A TREATMENT OF THE VARIOUS INSTRUMENTS AVAILABLE FOR REFLECTANCE STUDIES AND TO THE MEASUREMENT AND STANDARDIZATION OF REFLECTANCE.

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($49.95)

IRIS ACCESSION NUMBER: EW001971

PUBLICATION DATE: 77

TITLE: FIXED BIOLOGICAL SURFACES - TREATMENT OF WASTES.

PERSONAL AUTHOR: ANTONIE, R. L.

DESCRIPTOR: DENITRIFICATION; *INSTRUCTIONAL MATERIALS; NITRIFICATION; POST SECONDARY EDUCATION; *SEWAGE; *TRICKLING FILTERS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 224P. CAT. NO. 5107EF32

ABSTRACT: HISTORICALLY TRACES THE DEVELOPMENT AND USE OF FIXED FILM TREATMENT SYSTEMS, INCLUDING THE ROTATING CONTACTOR. DESIGN CRITERIA FOR FIXED FILM SYSTEMS IS PRESENTED FOR TREATMENT OF DOMESTIC AND A WIDE RANGE OF INDUSTRIAL WASTES. THE RECENT AND RAPIDLY SPREADING REQUIREMENTS FOR NITRIFICATION AND DENITRIFICATION ARE ALSO DISCUSSED ALONG WITH DESIGN CRITERIA FOR FIXED FILM PROCESS APPLICATION TO MEET THESE REQUIREMENTS. DESIGN CRITERIA FOR UPGRADING EXISTING TREATMENT PLANTS TO GREATER HYDRAULIC CAPACITY AND HIGHER LEVELS OF TREATMENT ARE DISCUSSED.

AVAILABILITY: CRC PRESS, INC., 2255 PALM BEACH LAKES BLVD., WEST PALM BEACH, FL 33409 ($42.95)

IRIS ACCESSION NUMBER: EW001973

PUBLICATION DATE: 73

TITLE: MASS SPECTROMETRY OF PESTICIDES AND POLLUTANTS.

PERSONAL AUTHOR: SAFE, S.; HUTZINGER, O.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MASS SPECTROSCOPY; *PESTICIDES; *POLLUTANTS; *POST SECONDARY EDUCATION; CHEMICAL ANALYSIS; ORGANIC CHEMISTRY

DESCRIPTIVE NOTE: 220P. CAT. NO. 5033EF32

ABSTRACT: COLLECTS AND DISCUSSES ALL THE PUBLISHED INFORMATION ON THE MASS SPECTROMETRY OF PESTICIDES AND POLLUTANTS. THESE DATA HAVE BEEN ARRANGED ACCORDING TO THEIR CHEMICAL FUNCTIONALITY (I. E. CARBAMATES, UREAS, TRIAZINES, ETC.) AND THEIR MASS SPECTRA AND FRAGMENTATION PATTERNS HAVE BEEN PRESENTED AND DISCUSSED IN SOME DETAIL. ALSO INCLUDED AND DISCUSSED ARE THE SPECTRA OF MANY COMPOUNDS WHICH HAVE BEEN RECENTLY RUN IN THE ATLANTIC RESEARCH LABORATORY. IN ADDITION, THE USES OF MASS SPECTROMETRY IN THE IDENTIFICATION OF PHOTO AND METABOLIC PRODUCTS HAVE BEEN INCLUDED.

AVAILABILITY: CRC PRESS, INC. 2255 PALM BEACH LAKES BLVD. WEST PALM BEACH, FL 33409 ($39.95).

IRIS ACCESSION NUMBER: EW001974

PUBLICATION DATE: 73

TITLE: CRC CRITICAL REVIEWS IN ENVIRONMENTAL CONTROL.

PERSONAL AUTHOR: STRAUB, C. P.

DESCRIPTOR: *ABSTRACTS; *ENVIRONMENTAL CONTROL; *RESEARCH; *SCHOLARLY JOURNALS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: CAT. NO. 1360EF32; SUBSCRIPTION RATE IS $64.00 FOR 1 YEAR (4 ISSUES); APPROXIMATELY 400 PAGES PER VOLUME

ABSTRACT: EACH VOLUME CONSISTS OF FOUR QUARTERLY ISSUES, EACH OF WHICH CONTAINS APPROXIMATELY FOUR REVIEWS. PROVIDES A QUALITATIVE APPROACH TO THE TOTAL MASS OF SCIENTIFIC LITERATURE. OUTSTANDING EXPERTS SELECT AND CRITICALLY EVALUATE THE MOST SIGNIFICANT PAPERS. EACH REVIEW IS REFEREED PRIOR TO PUBLICATION BY A SPECIALIST OF EQUAL EXPERTISE.

AVAILABILITY: CRC PRESS, INC. 2255 PALM BEACH LAKES BLVD. WEST PALM BEACH, FL 33409 ($64.00/4 ISSUES).

IRIS ACCESSION NUMBER: EW002000

TITLE: GOYA EFFECT.

DESCRIPTOR: AUDIOVISUAL AIDS; *COMMUNICATIONS; *DECISION MAKING; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, COLOR, 30 MIN.

ABSTRACT: VIEWERS LEARN THE VALUE OF KEEPING IN TOUCH WITH THE REAL NEEDS OF THEIR EMPLOYEES. THAT KEEPING IN CLOSE TOUCH WITH THEIR OPERATION AND PEOPLE BROADENS THEIR PLANNING AND DECISION MAKING SKILLS.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($60.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW002001

TITLE: IF YOU WANT IT DONE RIGHT.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LEADERSHIP; *MANAGEMENT; *PLANNING; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, COLOR, 20 MIN.

ABSTRACT: VIEWERS LEARN SPECIFIC STEPS TO ASSURE THAT WORK GETS DONE PROPERLY.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($60.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW002002

PUBLICATION DATE: 75

TITLE: ENVIRONMENT: FRIEND OR FOE.

PERSONAL AUTHOR: WOLMAN, A.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *NEW YORK CITY; *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 16 MM, 20 MIN., COLOR

ABSTRACT: NATIONAL MEDAL OF SCIENCE WINNER CHALLENGES SOME OF TODAY'S ACCEPTED THOUGHT PATTERNS. HE SUGGESTS THAT CAREFUL AND INFORMED JUDGMENTS ARE SUPERIOR TO STRICT WATER QUALITY NUMERICAL STANDARDS. HE CHALLENGES THE PESSIMISM ABOUT OUR CITIES BY DESCRIBING THE POTENTIAL VITALITY AND VIABILITY OF NEW YORK CITY.

AVAILABILITY: STUART FINLEY, INC., 3428 MANSFIELD ROAD, FALLS CHURCH, VA 22041 ($30.00 RENTAL; $300.00 PURCHASE)

IRIS ACCESSION NUMBER: EW002004

PUBLICATION DATE: 73

TITLE: ISA CONTROL VALVE COMPENDIUM.

DESCRIPTOR: *CONTROL VALVES; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: 320P.

ABSTRACT: REFERENCE ON STANDARDIZED PRODUCT DATA FOR CONTROL VALVES AND RELATED ACCESSORIES.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($30.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002005

PUBLICATION DATE: 76

TITLE: ISA HANDBOOK OF CONTROL VALVES, 2ND ED.

DESCRIPTOR: *CONTROL VALVES; *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: ORDER NO. 1019

ABSTRACT: NEW AND UPDATED INFORMATION ON CONTROL VALVE TECHNOLOGY - FROM FUNDAMENTALS TO IN-DEPTH APPLICATIONS.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($35.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002006

PUBLICATION DATE: 78

TITLE: ELECTRICAL INSTRUMENTS IN HAZARDOUS LOCATIONS, 3RD ED.

DESCRIPTOR: *ELECTRICAL SYSTEMS; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MOTORS; *POST SECONDARY EDUCATION; *SAFETY; ACCIDENT PREVENTION

DESCRIPTIVE NOTE: 321P. ORDER NO. F6

ABSTRACT: HISTORY AND PERSPECTIVE, AREA/MATERIAL CLASSIFICATION, EXPLOSION FUNDAMENTALS, IGNITION OF GASES/VAPORS BY ELECTRICAL MEANS. ALSO, HAZARD REDUCTION, EXPLOSION-PROOF HOUSING, PURGING, ENCAPSULATION/SEALING/IMMERSION, INTRINSICALLY SAFE AND N-INCENDIVE SYSTEMS, INTRINSIC SAFETY, DUST HAZARDS, FLAME ARRESTERS, HUMAN SAFETY.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($35.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002007

PUBLICATION DATE: 72

TITLE: ELECTRICAL SAFETY PRACTICES, MONOGRAPH #113.

DESCRIPTOR: *ACCIDENT PREVENTION; *ELECTRICAL SYSTEMS; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; MANUALS; *MOTORS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 120P. ORDER NO. F8

ABSTRACT: ASPECTS OF INTRINSIC SAFETY, MATERIAL CLASSIFICATION, AREA CLASSIFICATION AND MISCELLANEOUS DATA.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($9.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002009

PUBLICATION DATE: 73

TITLE: PROCEEDINGS OF THE JOINT CONFERENCE ON THE SENSING OF ENVIRONMENTAL POLLUTANTS.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BIOLOGY; CHEMISTRY; *CONFERENCE REPORTS; INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MEASUREMENT; MONITORING; PHYSICS; *POLLUTANTS; POLLUTION

DESCRIPTIVE NOTE: 376P. ORDER NO. H813

ABSTRACT: CONTAINS 45 PAPERS ON IN-SITU AND REMOTE SENSING TECHNIQUES OF A BIOLOGICAL, CHEMICAL AND PHYSICAL NATURE. FOCUSES ON SENSING TECHNIQUES RATHER THAN PROGRAMS OR PLATFORMS. THIRTEEN SESSION TOPICS.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($40.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002011

PUBLICATION DATE: 74

TITLE: FLOW - ITS MEASUREMENT AND CONTROL IN SCIENCE AND INDUSTRY, VOLUME 1.

DESCRIPTOR: *CONFERENCE REPORTS; EQUIPMENT; *FLOW MEASUREMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; *INSTRUCTIONAL MATERIALS; MEASUREMENT; *OPERATIONS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 162 PAPERS IN THREE PARTS

ABSTRACT: PROCEEDINGS OF THE FIRST INTERDISCIPLINARY SYMPOSIUM, CONDUCTED 1971 IN PITTSBURGH, PA. SPONSORED BY AMERICAN SOCIETY OF MECHANICAL ENGINEERS, AMERICAN INSTITUTE OF PHYSICS, NATIONAL BUREAU OF STANDARDS, AND ISA.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($110.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002012

PUBLICATION DATE: 74

TITLE: JOINT ASME FLUIDS ENGINEERING CONFERENCE, PART 1: FLOW CHARACTERISTICS.

DESCRIPTOR: *CONFERENCE REPORTS; *ENGINEERING; EQUIPMENT; *FLOW MEASUREMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; MEASUREMENT; *OPERATIONS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 47 PAPERS; ORDER NO. LCF1; THREE-PART S (EW002012-EW002014) CAN PURCHASED AS A UNIT - ORDER NO. LC ($110.00)

ABSTRACT: LAMINAR FLOW CHARACTERISTICS, OPEN CHANNEL FLO MULTIPHASE FLOW, NON-STEADY FLOWS, CRITICAL FL CHARACTERISTICS, FLUID DYNAMICS OF FLOWS, ENVIRONMENTAL A CRYOGENIC FLOW MEASUREMENTS.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANW STREET, PITTSBURGH, PA 15222 ($40.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002013

PUBLICATION DATE: 74

TITLE: JOINT ASME FLUIDS ENGINEERING CONFERENCE, PART 2 FLOW MEASURING DEVICES.

DESCRIPTOR: *CONFERENCE REPORTS; EQUIPMENT; *FL MEASUREMENT; *INDUSTRIAL TECHNOLOGY; INDUSTR *INSTRUCTIONAL MATERIALS; MEASUREMENT; OPERATIONS; PO SECONDARY EDUCATION

DESCRIPTIVE NOTE: 68 PAPERS; ORDER NO. LCF2; THREE-PART S (EW002012-EW002014) CAN BE PURCHASED AS A UNIT - ORDER N LCF4 ($110.00)

ABSTRACT: HEAD METERS (BASICS, DEVELOPMENTS, MAXIMIZI PERFORMANCE); THERMAL METHODS (FUNDAMENTALS, APPLICATIO OPERATION); VOLUMETRIC, TAGGING AND ACOUSTIC METHOD FLOWMETERS (TURBINE TYPE, MAGNETIC, NUCLEAR RESONANCE A MASS); HYDRODYNAMIC OSCILLATORS; ELECTROMAGNETIC RADIATION.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANW STREET, PITTSBURGH, PA 15222 ($40.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002014

PUBLICATION DATE: 74

TITLE: JOINT ASME FLUIDS ENGINEERING CONFERENCE, PART 3: FLOW MEASUREMENT AND CONTROL BIOLOGICAL FLUID FLOWS.

DESCRIPTOR: *BIOLOGY; *CONFERENCE REPORTS; *FLO MEASUREMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONA MATERIALS; *INSTRUMENTATION; MEASUREMENT; OPERATIONS; *POS SECONDARY EDUCATION

DESCRIPTIVE NOTE: 47 PAPERS; ORDER NO. LCF3; THREE-PART SE (EW002012-EW002014) CAN BE PURCHASED AS A UNIT - ORDER NO LCF4 ($110.00)

ABSTRACT: FLOW CONTROL (CONTROL VALVE SIZING METHODS EFFECT OF FLUID PROPERTIES AND GEOMETRY ON CONTROL VALV SIZING, SYSTEM DESIGN AND APPLICATION, CONTROL VALVE NOISE) FLUID POWER CONTROL (SYSTEMS DESIGN, VALVE CHARACTERISTICS) FLOW BENCHMARKS (PRINCIPLE AND PRACTICE); BLOOD FLO MEASUREMENT AND BIORHEOLOGY, BLOOD FLOW IN TISSUE, MICRO CIRCULATORY FLOW OF BLOOD AND DRAG REDUCTION, AIR FLOW I LUNGS AND BLOOD-GAS CONCENTRATION CONTROL.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWI STREET, PITTSBURGH, PA 15222 ($40.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002015

PUBLICATION DATE: 73

TITLE: FUNDAMENTALS OF CONTROL VALVES - MAINTENANCE AN OVERHAUL PROCEDURES.

DESCRIPTOR: *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION; *VALVES; VIDE CASSETTES; VIDEO TAPES

DESCRIPTIVE NOTE: ORDER NO. 1018; 16 MM, COLOR, 15 MIN; VEDEOTAPE 1/2" EIA-J REEL OR 3/4" U-MATIC CASSETTE

ABSTRACT: EXPLAINS THE IMPORTANCE OF PROPER INSTALLATION, MAINTENANCE AND OVERHAUL PROCEDURES - WHAT THEY ARE - HOW TO DO THEM. FOCUSES ON STEP-BY-STEP OVERHAUL, INCLUDING DISASSEMBLY IN THREE STAGES - ACTUATOR, BONNET, BODY; RECONDITIONING OF EACH ELEMENT; REASSEMBLY AND MAJOR TESTS TO PERFORM.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($220.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002016

PUBLICATION DATE: 71

TITLE: FUNDAMENTALS OF CONTROL VALVES.

DESCRIPTOR: *DESIGN; *ENGINEERING; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: ORDER NO 1012; 16 MM, 38 MIN; CAN BE RENTED FOR $50.00

ABSTRACT: COVERS THE THEORY, APPLICATION, INSTALLATION AND MAINTENANCE OF CONTROL VALVES. IT FOLLOWS A NOVICE ENGINEER THROUGH THE PROBLEMS OF SELECTING THE PROPER CONTROL VALVE FOR A SPECIFIC APPLICATION. EMPHASIS IS PLACED ON THE "WHY" OF CONTROL VALVE BODY DESIGN. EXPLAINS VALVE BODY STYLES, CONSTRUCTION AND OPERATIONS, INCLUDING APPLICATIONS OF SPECIFIC TYPES OF VALVES; KINDS OF ACTUATORS AND POSITIONERS; FLOW CAPACITY, INCLUDING VALVE SIZING, CAVITATION AND RANGEABILITY AND VALVE MAINTENANCE.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($500.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002017

PUBLICATION DATE: 63

TITLE: AUTOMATIC PROCESS CONTROL.

DESCRIPTOR: *DESIGN; *EQUIPMENT; ENGINEERING; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *PROCESS CONTROL; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 1010; 16 MM, COLOR, 33 MIN; TEXT AVAILABLE EW002018; CAN BE RENTED FOR $50.00

ABSTRACT: DEPICTS THE APPLICATION OF AUTOMATIC CONTROL TO A PROCESS IN A SMALL CHEMICAL PLANT. DISCUSSES ON/OFF, PROPORTIONAL, PROPORTIONAL WITH RESET, AND PROPORTIONAL WITH RESET AND RATE ACTION MODES OF CONTROL. EXPLAINS HOW THE RELATION OF SYSTEM ANALYSIS, CENTRALIZED PANELS, AND COMPUTER CONTROL CAN HELP BRING ABOUT OPTIMUM PROCESS CONDITIONS AT MAXIMUM OUTPUT WITH MINIMUM COST.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($450.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002018

PUBLICATION DATE: 63

TITLE: PRINCIPLES OF AUTOMATIC PROCESS CONTROL (TEXT).

DESCRIPTOR: *DESIGN; *ENGINEERING; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *POST SECONDARY EDUCATION; *PROCESS CONTROL

DESCRIPTIVE NOTE: 48P. ORDER NO. 109; TO BE USED WITH FILM "AUTOMATIC PROCESS CONTROL" EW002017

ABSTRACT: A SELF-STUDY GUIDE ON THE BASICS OF AUTOMATIC CONTROL. PART 1 IS BASED ON THE FILM; PART 2 IS A CLASSROOM- ORIENTED DEMONSTRATION OF JUSTIFICATION OF AUTOMATIC CONTROL, DESIGN OF AN AUTOMATIC CONTROLLER, AND APPLICATION OF A CONTROLLER TO A PROCESS.

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX STREET, PITTSBURGH, PA 15222 ($5.00)

INSTITUTION NAME: INSTRUMENT SOCIETY OF AMERICA.

IRIS ACCESSION NUMBER: EW002021

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL MONOGRAPH SERIES ONE: WATER POLLUTION MONITORING.

PERSONAL AUTHOR: CROSS, F. L.

DESCRIPTOR: ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; MEASUREMENT TECHNIQUES; *MONITORING; POLLUTION; *POST SECONDARY EDUCATION; *SAMPLING; SCIENCE EDUCATION; *WATER ANALYSIS; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: CAT. NO. 3194

ABSTRACT: PHILOSOPHY OF MONITORING, FIELD SAMPLING AND ANALYTICAL TECHNIQUES; SPECIAL EMPHASIS ON INSTRUMENTATION.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($10.00)

IRIS ACCESSION NUMBER: EW002022

PUBLICATION DATE: 77

TITLE: ENVIRONMENTAL MONOGRAPH SERIES FOUR: LEACHATE CONTROL AND TREATMENT.

PERSONAL AUTHOR: CROSS, F. L.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LAND APPLICATION; LANDFILLS; *LEACHING; *MONITORING; POLLUTION; *POST SECONDARY EDUCATION; SOIL APPLICATION; *WASTE DISPOSAL; WASTEWATER TREATMENT; *WATER ANALYSIS

DESCRIPTIVE NOTE: CAT. NO. 3243

ABSTRACT: FORMATION AND CHARACTERISTICS OF LEACHATE FROM DOMESTIC AND INDUSTRIAL WASTES DISPOSED OF BY SANITARY LANDFILL. SUGGESTIONS ON THE TYPE AND LOCATION OF EQUIPMENT TO IMPLEMENT A MONITORING PROGRAM.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($10.00)

IRIS ACCESSION NUMBER: EW002023

PUBLICATION DATE: 77

TITLE: ENVIRONMENTAL MONOGRAPH SERIES SEVEN: ENVIRONMENTAL PLANNING.

PERSONAL AUTHOR: CROSS, F. L.

DESCRIPTOR: AIR POLLUTION CONTROL; *ENVIRONMENT; *ENVIRONMENTAL CRITERIA; *INSTRUCTIONAL MATERIALS; *PLANNING; POLLUTION; POST SECONDARY EDUCATION; REGULATIONS; *REPORTS; TECHNICAL WRITING; WATER QUALITY; *ENVIRONMENTAL IMPACT STATEMENTS

DESCRIPTIVE NOTE: CAT. NO. 3245

ABSTRACT: FUNDAMENTAL TECHNIQUES, INCORPORATING THE MULTI-DISCIPLINARY ASPECTS OF ENVIRONMENTAL IMPACT STATEMENTS.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($10.00)

IRIS ACCESSION NUMBER: EW002024

PUBLICATION DATE: 73

TITLE: PRIMER ON ENVIRONMENTAL IMPACT STATEMENTS.

PERSONAL AUTHOR: CROSS, F. L.; BARBARO, R.

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL CRITERIA; FEDERAL LEGISLATION; *INSTRUCTIONAL MATERIALS; *LAWS; *PLANNING; POST SECONDARY EDUCATION; *REGULATIONS; REPORTS; TECHNICAL WRITING; *ENVIRONMENTAL IMPACT STATEMENTS

DESCRIPTIVE NOTE: 140P. CAT. NO 3164

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 265 WEST STATE STREET, WESTPORT, CN 06880 ($20.00)

IRIS ACCESSION NUMBER: EW002035

PUBLICATION DATE: 76

TITLE: TREATMENT OF INDUSTRIAL WASTES.

PERSONAL AUTHOR: BESSELIEVRE, E. B.; SCHWARTZ, M.

DESCRIPTOR: *DESIGN; *FACILITIES; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; LAWS; *MAINTENANCE; POST SECONDARY EDUCATION; *REGULATIONS; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 386P.

ABSTRACT: DISCUSSION OF WATER POLLUTION CONTROL REGULATIONS PLUS A COMPREHENSIVE, "USER ORIENTED" GUIDE TO THE SELECTION, INSTALLATION, AND MAINTENANCE OF FACILITIES TO MEET THOSE REQUIREMENTS.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW002037

PUBLICATION DATE: 74

TITLE: OIL SPILLS AND THE MARINE ENVIRONMENT.

PERSONAL AUTHOR: BOESCH, D. F.; AND OTHERS

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; MARINE ENVIRONMENT; *MARINE POLLUTION; *OCEANOLOGY; *OIL SPILLS; *POLLUTION; *POST SECONDARY EDUCATION; SPILLS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 114P.

ABSTRACT: DISCUSSION OF THE CAUSES, EFFECTS, AND PREVENTION OF MARINE OIL POLLUTION. IDENTIFIES THE BASIC SCIENTIFIC KNOWLEDGE ON WHICH PUBLIC POLICY MAKERS MUST RELY AND OFFERS AN AGENDA FOR RESEARCH TO IMPROVE THAT BASE.

AVAILABILITY: BALLINGER PUBLISHING CO., 17 DUNSTER ST., CAMBRIDGE, MA 02138 (PAPERBACK-$7.95; CLOTH-$16.50)

IRIS ACCESSION NUMBER: EW002039

PUBLICATION DATE: 75

TITLE: REGIONAL ENVIRONMENTAL MANAGEMENT.

PERSONAL AUTHOR: COATE, L. E.

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL CRITERIA; FEDERAL LEGISLATION; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; PLANNING; POST SECONDARY EDUCATION; *REGIONAL PLANNING; *REGULATIONS

DESCRIPTIVE NOTE: 348P. ORDER NO. 0 471 16138-1

ABSTRACT: STATE-OF-THE-ART EXAMINATION OF ISSUES, PROBLEMS AND CHALLENGES THAT TODAY'S REGIONAL ENVIRONMENTAL MANAGERS FACE ON ALL LEVELS OF GOVERNMENT. EMPHASIS IS ON PRACTICAL, EVERYDAY PROBLEM-SOLVING TECHNIQUES APPLICABLE TO ANY REGIONAL ENVIRONMENTAL MANAGEMENT PROGRAM.

AVAILABILITY: JOHN WILEY AND SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($24.00)

IRIS ACCESSION NUMBER: EW002040

PUBLICATION DATE: 75

TITLE: ADVANCES IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY, VOLUME 5.

PERSONAL AUTHOR: PITTS, J. N.; AND OTHERS

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; MONITORING; *POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; *TECHNOLOGY; *THERMAL ENVIRONMENT; *WATER POLLUTION CONTROL; AUSTRALIA; *JAPAN

DESCRIPTIVE NOTE: 371P. ORDER NO. O 471 69088-0

ABSTRACT: INVESTIGATES THE EFFECTS OF COMBUSTION-GENERATED AIR POLLUTION ON THE URBAN ENVIRONMENT. IT COMPARES THE POLLUTION- RIDDEN JAPANESE ENVIRONMENT WITH THE RELATIVELY POLLUTION-FREE ENVIRONMENT OF AUSTRALIA, AND EXAMINES THE LATEST TECHNOLOGICAL ADVANCES FOR CONTROLLING WATER POLLUTION DUE TO THERMAL CONTAMINATION.

AVAILABILITY: JOHN WILEY AND SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($26.75)

IRIS ACCESSION NUMBER: EW002041

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL DATA HANDLING.

PERSONAL AUTHOR: HEASLIP, G. B.

DESCRIPTOR: *COMPUTERS; *DATA ANALYSIS; *ENVIRONMENTAL RESEARCH; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *STATISTICAL ANALYSIS; *TECHNOLOGY; EQUIPMENT; LABORATORY TECHNIQUES; RESEARCH; SCIENCE EDUCATION

DESCRIPTIVE NOTE: 203P. ORDER NO. O 471 36672-2

ABSTRACT: REFERENCE SHOWING HOW TEST AND ENVIRONMENTAL DATA (FROM TRANSDUCERS TO SENSORS) ARE RECORDED, PROCESSED, AND DISPLAYED. GRAPHIC ILLUSTRATIONS DEMONSTRATE HOW DATA ARE OBTAINED ON LAND, IN THE SEA, BY AIRCRAFT AND SATELLITE, AND HOW THESE MAY BE PROCESSED AND DISPLAYED BY BOTH ANALOG AND DIGITAL SYSTEMS. REFERENCES PAY SPECIAL ATTENTION TO EARTH RESOURCES SURVEY DATA AND ALSO TO DATA COMMONLY ACQUIRED DURING AEROSPACE INDUSTRY AND MILITARY TESTS. SECTIONS OF MICROFILM, DATA BANKS, AND A FULL GLOSSARY OF TERMS.

AVAILABILITY: JOHN WILEY AND SONS, INC. 605 THIRD AVENUE, NEW YORK, NY 10016 ($22.25).

IRIS ACCESSION NUMBER: EW002042

PUBLICATION DATE: 72

TITLE: NUTRIENTS IN NATURAL WATERS.

PERSONAL AUTHOR: ALLEN, H. E.; KRAMER, J. R.

DESCRIPTOR: CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; LAWS; *NUTRIENTS; *OXYGEN; *POST SECONDARY EDUCATION; REGULATIONS; *WATER ANALYSIS; *WATER POLLUTION CONTROL; *WATER QUALITY; WATER RESOURCES; *GREAT LAKES; LAKE ERIE

DESCRIPTIVE NOTE: 457P. ORDER NO. O 471 02328-0

ABSTRACT: LATEST THINKING AND RESEARCH OF EXPERTS IN THE CHEMICAL AND BIOLOGICAL SCIENCES AND IN ENGINEERING, COVERING ALL ASPECTS OF THE CHEMISTRY, BIOCHEMISTRY, AND GEOCHEMISTRY OF NUTRIENTS. DETAILED STUDY OF DEPLETION OF OXYGEN IN LAKE ERIE; THE NUTRIENT CONTROL POLICIES OF THE UNITED STATES AND CANADA.

AVAILABILITY: JOHN WILEY AND SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($29.50)

IRIS ACCESSION NUMBER: EW002043

PUBLICATION DATE: 75

TITLE: MATHEMATICAL TECHNIQUES IN CHEMISTRY.

PERSONAL AUTHOR: DENCE, J. B.

DESCRIPTOR: *ALGEBRA; *CALCULUS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL APPLICATIONS; *MATHEMATICS; *POST SECONDARY EDUCATION; TECHNICAL MATHEMATICS; *TRIGONOMETRY

DESCRIPTIVE NOTE: 442P. ORDER NO. O 471 20319-X

ABSTRACT: HOW TO APPLY BASIC ALGEBRA, TRIGONOMETRY, AND CALCULUS OF DIFFERENTIATION, INTEGRATION, AND SERIES TO ELEMENTARY AND SPECIALIZED CHEMICAL PROCESSES. DISCUSSES EXPANSIONS IN SERIES, SPECIAL FUNCTIONS, MATRICES, VECTORS, AND TENSORS.

AVAILABILITY: JOHN WILEY AND SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($16.25)

IRIS ACCESSION NUMBER: EW002044

PUBLICATION DATE: 74

TITLE: AQUATIC MICROBIOLOGY.

PERSONAL AUTHOR: RHEINHEIMER, G.

DESCRIPTOR: *AQUATIC MICROBIOLOGY; *BACTERIA; ECOLOGY; ENVIRONMENTAL EDUCATION; FUNGI; *INSTRUCTIONAL MATERIALS; LIMNOLOGY; MARINE BIOLOGY; *MICROBIOLOGY; OCEANOLOGY; PLANT DISEASES; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 184P. ORDER NO. O 471 71803-3

ABSTRACT: SURVEYS OUR PRESENT KNOWLEDGE OF AQUATIC BACTERIA AND FUNGI AND EXPOSES THEIR ROLE IN THE LIFE OF LAKES, RIVERS, AND SEAS. READERS WILL LEARN HOW THESE MICROORGANISMS AFFECT THE FORMATION AND TRANSFORMATION OF SEDIMENTS AND MINERAL RESOURCES; HOW THEY CONSTITUTE AN IMPORTANT PART OF THE FOOD OF THE MICROFAUNA; HOW SOME FORMS CAUSE DISEASES IN PLANTS AND ANIMALS; AND HOW SOME MAY CAUSE CONSIDERABLE DAMAGE BY DESTRUCTION OF FISHING TACKLE AND HYDRAULIC STRUCTURES.

AVAILABILITY: JOHN WILEY AND SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($14.00)

IRIS ACCESSION NUMBER: EW002046

TITLE: ENVIRONMENTAL EDUCATION - A BEGINNING.

DESCRIPTOR: *AUDIOVISUAL AIDS; CONSERVATION; *ENVIRONMENTAL EDUCATION; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PUBLIC PARTICIPATION

DESCRIPTIVE NOTE: (CODE NO 30377), 16 MM, COLOR, 28 MIN- ALSO AVAILABLE IN 15 MIN. VERSION "A BEGINNING" (CODE N 30390)

ABSTRACT: PRESENTS SOME REPRESENTATIVE ENVIRONMENTAL EDUCATION PROJECTS NOW IN PROGRESS IN VARIOUS PARTS OF THE COUNTRY. THEY RANGE FROM NATURE WALKS FOR PRESCHOOLERS TO PLANNING HOW A MAJOR CITY CAN MEET FEDERAL AIR QUALITY STANDARDS.

AVAILABILITY: NATIONAL AUDIO VISUAL CENTER, GENERAL SERVICES ADMINISTRATION, SALES BRANCH, WASHINGTON, D.C. 20409 ($81.25)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002047

TITLE: ENERGY VS ECOLOGY: THE GREAT DEBATE.

DESCRIPTOR: *COAL; *ECOLOGY; ENERGY; ENVIRONMENT; *FILMS; INDUSTRY; *INSTRUCTIONAL FILMS; *LAND USE; *MINING INDUSTRY; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (CODE NO. 30031), 16 MM, COLOR 27 MIN.

ABSTRACT: INDICATES HOW WE UTILIZE COAL, OUR MOST ABUNDANT SOURCE OF ENERGY IN THIS COUNTRY, WITHOUT DISRUPTING OUR ENVIRONMENT. ILLUSTRATES THE SURFACE MINING OF THOUSANDS OF ACRES OF LAND AND SHOWS HOW THAT SAME LAND IS THEN RESTORED TO USABLE PRODUCTIVITY AND ECOLOGICALLY SOUND CONDITION.

AVAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST ROAD, ELK GROVE VILLAGE, IL 60007 (FREE RENTAL)

INSTITUTION NAME: IOWA BEEF INDUSTRY.

IRIS ACCESSION NUMBER: EW002056

PUBLICATION DATE: 74

TITLE: SANTA BARBARA OIL SPILL.

PERSONAL AUTHOR: RUHLE, J. L.

DESCRIPTOR: *ENVIRONMENT; *FILMSTRIPS; *INSTRUCTIONAL MATERIALS; *MARINE POLLUTION; *OIL SPILLS; POLLUTION; POST SECONDARY EDUCATION; SLIDES; *VISUAL AIDS; WATER POLLUTION CONTROL; *CALIFORNIA; *SANTA BARBARA

DESCRIPTIVE NOTE: 35 MM SLIDES (36), COLOR, PRINTED NARRATION; AVAILABLE IN FLIMSTRIP/10 MIN TAPE CASSETTE (36 FRAMES)

ABSTRACT: DEPICTS THE INITIAL STAGES OF THE BLOW-OUT, THE MOVEMENT OF THE OIL SLICK, EFFORTS TO CONTAIN THE SLICK, ITS IMPACT ON THE SANTA BARBARA COAST, AND THE CLEAN-UP OPERATIONS THAT FOLLOWED. NARRATED BY ROD STERLING.

AVAILABILITY: JAMES L. RUHLE AND ASSOC., P.O. BOX 4301, FULLERTON, CA 92631 (FILMSTRIP-$25.00; SLIDES-$50.00)

IRIS ACCESSION NUMBER: EW002057

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL SYSTEMS ENGINEERING.

PERSONAL AUTHOR: RICH, L. G.

DESCRIPTOR: COMPUTER APPLICATIONS; COURSE CONTENT; *CURRICULUM; *DESIGN; ENGINEERING; *ENVIRONMENTAL SYSTEMS ENGINEERING; *FACILITIES; INSTRUCTIONAL MATERIALS; MATHEMATICAL MODELS; MODELS; POST SECONDARY EDUCATION; PRIMARY TREATMENT; SECONDARY TREATMENT; SLUDGE TREATMENT; *SYSTEMS ANALYSIS; TERTIARY TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 448P. (CODE NO. 052250-2)

ABSTRACT: USES A SYSTEMS APPROACH IN THE FORMULATION AND ANALYSIS OF ENVIRONMENTAL PHENOMENA, AS WELL AS IN THE SELECTION AND DESIGN OF ENGINEERING FACILITIES USED FOR CONTROLLING THE ENVIRONMENT. FOCUSES ON THE SYSTEM AS A WHOLE AND HOW ITS COMPONENTS INTERACT, RATHER THAN ON THE COMPONENTS THEMSELVES. THE MATHEMATICS OF SYSTEMS ANALYSIS AND COMPUTER SOLUTIONS IS USED EXTENSIVELY. DESIGNED FOR A TWO-SEMESTER COURSE IN ENVIRONMENTAL SYSTEMS ENGINEERING, IT CAN EASILY BE ADAPTED TO SEVERAL TYPES OF SINGLE SEMESTER COURSES, EACH WITH A DIFFERENT EMPHASIS.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW002058

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL PROTECTION.

PERSONAL AUTHOR: CHANLETT, E. T.

DESCRIPTOR: *AIR POLLUTION CONTROL; ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POLLUTION; *POST SECONDARY EDUCATION; *RESOURCE MANAGEMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 569P. (CODE NO. 010520-0)

ABSTRACT: DESCRIBES THE RATIONALE FOR THE MANAGEMENT AND PROTECTION OF OUR LAND, AIR, WATER AND ENERGY RESOURCES. THE CONSEQUENCE OF MISMANAGEMENT OF THE MAJOR ENVIRONMENTAL COMPONENTS ARE EXAMINED AT THREE LEVELS - 1) EFFECTS ON HEALTH; 2) EFFECTS COMFORT, CONVENIENCE, EFFICIENCY AND ESTHETICS; AND 3) EFFECTS ON THE BALANCE OF ECOSYSTEMS AND OF RENEWABLE RESOURCES.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($22.00)

IRIS ACCESSION NUMBER: EW002068

PUBLICATION DATE: 74

TITLE: INDUSTRIAL WATER PURIFICATION.

PERSONAL AUTHOR: MARTIN, L. F.

DESCRIPTOR: EFFLUENTS; HEAVY METALS; *INDUSTRIAL WASTES; *INDUSTRIAL WATER; *INSTRUCTIONAL MATERIALS; METALS; OIL; *OPERATIONS (WASTEWATER); *POLLUTANTS; POLLUTION; POST SECONDARY EDUCATION; SEPARATION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 300P. (ISBN 0-8155-0554-X)

ABSTRACT: DESCRIBES OVER 160 RECENTLY DEVISED PROCESSES FOR THE TREATMENT OF CONTAMINATED INDUSTRIAL WATERS AND EFFLUENTS. PURSUANT TO NEW FEDERAL LEGISLATION ALL INDUSTRIAL FACILITIES MUST INCLUDE DOWNSTREAM WATER PURIFICATION PROCESSES. INCLUDES: SOLID-LIQUID SEPARATION PROCESSES, OIL-WATER SEPARATIONS, REMOVAL OF METALS, METAL FINISHING EFFLUENTS, PULP AND PAPER PROBLEMS, COAL, ORE AND TAR SAND PROCESSING, REFINING AND CHEMICAL PROCESSES. THE DESCRIPTIONS CLEARLY HIGHLIGHT THE AREAS OF GREATEST IMMEDIATE CONCERN.

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656 ($36.00)

IRIS ACCESSION NUMBER: EW002069

PUBLICATION DATE: 76

TITLE: SEWAGE SLUDGE TREATMENT AND DISPOSAL.

PERSONAL AUTHOR: JAMES, R. W.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SLUDGE; WASTE DISPOSAL; *WASTEWATER SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 276P.

ABSTRACT: DESCRIBES 119 PATENT-BASED PROCESSES RELATING TO THE TREATMENT OF SEWAGE SLUDGE.

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656 ($39.00)

IRIS ACCESSION NUMBER: EW002074

PUBLICATION DATE: 75

TITLE: MUNICIPAL SLUDGE MANAGEMENT AND DISPOSAL.

DESCRIPTOR: *CONFERENCE REPORTS; HEAVY METALS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; MONITORING; NUTRIENTS; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *ENVIRONMENTAL IMPACT STATEMENTS

DESCRIPTIVE NOTE: 264P. PROCEEDINGS OF THE SECOND NATIONAL CONFERENCE ON MUNICIPAL SLUDGE MANAGEMENT AND DISPOSAL

ABSTRACT: DESIGNED TO BE IMMEDIATELY BENEFICIAL TO THOSE RESPONSIBLE FOR UPGRADING SLUDGE HANDLING AND DISPOSAL OPERATIONS, ENVIRONMENTAL IMPACT STATEMENTS, SLUDGE DISPOSAL MONITORING OPERATIONS, FATE OF HEAVY METALS AND NUTRIENTS, AND HEALTH EFFECTS.

AVAILABILITY: INFORMATION TRANSFER, INC., 1160 ROCKVILLE PIKE, SUITE 202, ROCKVILLE, MD 20852 ($25.00)

INSTITUTION NAME: INFORMATION TRANSFER, INC.

IRIS ACCESSION NUMBER: EW002076

PUBLICATION DATE: 75

TITLE: MANAGEMENT AND DISPOSAL OF RESIDUES FROM THE TREATMENT OF INDUSTRIAL WASTEWATERS.

DESCRIPTOR: *CONFERENCE REPORTS; *INDUSTRIAL WASTES; *LAND USE; POST SECONDARY EDUCATION; *RECYCLING; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 270P. PROCEEDINGS OF THE NATL. CONFERENCE ON MANAGEMENT AND DISPOSAL OF RESIDUES FROM TREATMENT OF INDUSTRIAL WW

ABSTRACT: PRESENTS ALL ASPECTS OF INDUSTRIAL SLUDGE MANAGEMENT, INCLUDING INDUSTRIAL WASTEWATER TREATMENT AND AIR SCRUBBING SYSTEMS, OPERATIONAL PROBLEMS, SUCCESSFUL AND UNSUCCESSFUL SLUDGE DISPOSAL SYSTEMS, ENERGY RECOVERY, RESOURCE RECOVERY AND REUSE, INSTITUTIONAL PROBLEMS, CLOSED RECYCLE SYSTEMS, LAND DISPOSAL AND STANDARDS FOR DISPOSAL.

AVAILABILITY: INFORMATION TRANSFER, INC., 1160 ROCKVILLE PIKE, SUITE 202, ROCKVILLE, MD 20852 ($25.00)

INSTITUTION NAME: INFORMATION TRANSFER, INC.

IRIS ACCESSION NUMBER: EW002077

PUBLICATION DATE: 74

TITLE: MUNICIPAL SLUDGE MANAGEMENT.

DESCRIPTOR: *CONFERENCE REPORTS; COST EFFECTIVENESS; ECONOMICS; *MANAGEMENT; *MUNICIPAL WASTES; POST SECONDARY EDUCATION; *SLUDGE; *WASTE DISPOSAL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 224P. PROCEEDINGS OF THE NATIONAL CONFERENCE ON MUNICIPAL SLUDGE MANAGEMENT

ABSTRACT: HIGHLIGHTS ALL ASPECTS OF SLUDGE MANAGEMENT. PROBLEMS DISCUSSED; COSTS ARE PROVIDED THROUGHOUT; SOLUTIONS ARE PRESENTED FOR VARIOUS UNIT PROCESSES AND TOTAL SYSTEMS.

AVAILABILITY: INFORMATION TRANSFER, INC., 1160 ROCKVILLE PIKE, SUITE 202, ROCKVILLE, MD 20852 ($15.00)

INSTITUTION NAME: INFORMATION TRANSFER, INC.

IRIS ACCESSION NUMBER: EW002084

PUBLICATION DATE: 78

TITLE: WASTE OIL RECOVERY AND REUSE.

DESCRIPTOR: *CONFERENCE REPORTS; *INDUSTRIAL WASTES; NATURAL RESOURCES; *PETROLEUM INDUSTRY; POST SECONDARY EDUCATION; *RECYCLING; *WASTE DISPOSAL; *WASTE OILS

DESCRIPTIVE NOTE: 424P.

ABSTRACT: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON WASTE OIL RECOVERY AND REUSE SPONSORED BY THE ASSOCIATION OF PETROLEUM RE-REFINERS. INCLUDES THE IDENTIFICATION OF THE KNOWN AVAILABLE SOURCES OF WASTE OILS AND THEIR CHARACTERISTICS AND THE MOST UP-TO-DATE TECHNOLOGIES FOR PROCESSING WASTE OILS FOR REUSE; ALSO HIGHLIGHTS INDUSTRIAL AND INSTITUTIONAL NEEDS.

AVAILABILITY: INFORMATION TRANSFER, INC., 1160 ROCKVILLE PIKE, SUITE 202, ROCKVILLE, MD 20852 ($20.00)

INSTITUTION NAME: INFORMATION TRANSFER, INC.

IRIS ACCESSION NUMBER: EW002088

TITLE: ENVIRONMENTAL PERIODICALS BIBLIOGRAPHY.

DESCRIPTOR: *BIBLIOGRAPHIES; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *PERIODICALS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: BIMONTHLY PERIODICAL: ANNUAL VOLUME CONTAINS SIX ISSUES PLUS AN ANNUAL INDEX. SUBSCRIPTION PRICE IS $305.00 PER YEAR

ABSTRACT: A BIBLIOGRAPHIC REFERENCE TOOL THAT HAS SOMETHING FOR EVERYBODY INTERESTED IN SOME ASPECT OF THE ENVIRONMENT. PROVIDES A CONVENIENT MEANS FOR YOU TO SCAN THE RELEVANT PERIODICAL LITERATURE IN YOUR FIELD.

AVAILABILITY: ENVIRONMENTAL STUDIES INSTITUTE, 2074 ALAMEDA PADRE SERRA, SANTA BARBARA, CA 93103

INSTITUTION NAME: ENVIRONMENTAL STUDIES INSTITUTE.

IRIS ACCESSION NUMBER: EW002140

TITLE: NEW SOURCES OF WATER.

PERSONAL AUTHOR: RUHLE, J. L.

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *RECYCLING; *SLIDES; *WATER RESOURCES; *WATER REUSE; BIOLOGICAL TREATMENT; DESALINATION; POLLUTION; POST SECONDARY EDUCATION; VISUAL AIDS; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 50 SLIDES, PRINTED NARRATION

ABSTRACT: INCLUDES EXAMPLES OF WATER POLLUTION AND ITS ENVIRONMENTAL IMPACT; INCLUDING DISEASED FISH CAUSED BY DDT CONTAMINATION. INCLUDES EXAMPLES OF ARTIFICIAL RECHARGING OF GROUNDWATER; DESALTING PLANTS; THE USE OF SEWAGE WASTEWATER IN CALIFORNIA FOR IRRIGATION PURPOSES; A REVERSE OSMOSIS UNIT; AN EXPERIMENT WHERE WATER HYACINTH AND ALLIGATOR WEED ARE USED TO CLARIFY SEWAGE WASTEWATER; WATER CONSERVATION IN CLOSED CYCLE GREENHOUSE AGRICULTURE; WATER CONSERVATION BY MEANS OF AN ASPHALT PERMEABILITY BARRIER PLACED IN THE SOIL; CLOUD SEEDING; AND A PROPOSAL TO HAUL ICEBERGS FROM ANTARCTIC.

AVAILABILITY: JAMES L. RUHLE AND ASSOC. P.O. BOX 4301, FULLERTON, CA 92631 (FILMSTRIP - $25.00; SLIDES - $50.00).

IRIS ACCESSION NUMBER: EW002169

PUBLICATION DATE: 75

TITLE: CHEMISTRY AND MICROBIOLOGY OF POLLUTION.

PERSONAL AUTHOR: HIGGINS, I. J.; BURNS, R. G.

DESCRIPTOR: AGRICULTURAL WASTES; *BIOLOGY; CHEMICALS; *CHEMISTRY; *ENVIRONMENT; FERTILIZERS; INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; PESTICIDES; *POLLUTION; *POST SECONDARY EDUCATION; SEWAGE

DESCRIPTIVE NOTE: 248P.

ABSTRACT: OPENS WITH AN OUTLINE OF THE SCOPE OF POLLUTION PROBLEMS, AND THE FOLLOWING CHAPTERS GIVE DETAILED COVERAGE OF PESTICIDES, SEWAGE AND FERTILIZERS, HYDROCARBONS, SURFACTANTS, SYNTHETIC POLYMERS AND TOXIC METALS. DIRECTED TOWARDS UNDERGRADUATES AND POSTGRADUATES STUDYING ENVIRONMENTAL BIOLOGY, BUT SCIENTISTS OF THE MANY ALLIED DISCIPLINES WILL FIND IT A USEFUL SOURCE OF REFERENCE, COVERING AS IT DOES ALL THE MAJOR CHEMICAL AND MICROBIOLOGICAL ASPECTS OF POLLUTION IN A SINGLE VOLUME.

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($17.50)

IRIS ACCESSION NUMBER: EW002170

ERIC ACCESSION NUMBER: ED154991

PUBLICATION DATE: 76

TITLE: SOURCES OF INFORMATION IN WATER RESOURCES: AN ANNOTATED GUIDE TO PRINTED MATERIALS.

PERSONAL AUTHOR: GIEFER, G.; LD, J.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; *WATER RESOURCES; BIOLOGY; EDUCATIONAL PROGRAMS; MARINE BIOLOGY; NATURAL RESOURCES; POLLUTION; WATER POLLUTION CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTIVE NOTE: 290P

ISSUE: RIEOCT78

ABSTRACT: THIS GUIDE CITES AND ANNOTATES OVER 1100 TITLES FOUND USEFUL FOR REFERENCE PURPOSES IN THE WATER RESOURCES FIELD. IN ADDITION TO A CORE OF TITLES FAMILIAR TO HYDROLOGISTS, TITLES ARE INCLUDED FROM THOSE ALLIED FIELDS WHICH COVER CERTAIN ASPECTS OF WATER. THE EMPHASIS IS ON THE LITERATURE OF THE UNITED STATES AND IN GENERAL COVERS THE PERIOD FROM 1960 TO PRESENT. THE LITERATURE IS ARRANGED INTO THE FOLLOWING CATEGORIES: GENERAL WORKS; NATURE OF WATER; MANAGEMENT AND PROTECTION; WATER RESOURCES PLANNING; AND ENGINEERING WORKS. WITHIN THE SUBDIVISIONS OF THESE CATEGORIES, REFERENCE WORKS HAVE BEEN ARRANGED BY: GUIDES AND MANUALS; BIBLIOGRAPHIES; INDEXES AND ABSTRACT JOURNALS; ENCYCLOPEDIAS; DICTIONARIES; PUBLICATION LISTS; HANDBOOKS; DIRECTORIES; AND DATA COMPILATIONS.

AVAILABILITY: WATER INFORMATION CENTER, INC. 14 VANDERVENTER AVENUE, PORT WASHINGTON, NEW YORK 11050 (NO PRICE QUOTED)

INSTITUTION NAME: WATER INFORMATION CENTER, INC. PORT WASHINGTON, N.Y. (88B15622).

IRIS ACCESSION NUMBER: EW002184

PUBLICATION DATE: 76

TITLE: WITHIN OUR REACH.

DESCRIPTOR: AUDIOVISUAL AIDS; *CASE STUDIES; *CONSTRUCTION; ECONOMICS; *FACILITIES; *GRANTS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 16 MM, 17 MIN., COLOR; AVAILABLE ON LOAN FREE OF CHARGE FROM MODERN TALKING PICTURE SERVICE, INC., 2323 NEW HYDE PARD RD., NEW HYDE PARK, NY 11040

ABSTRACT: DESCRIBES HOW LOCAL MUNICIPALITIES PARTICIPATE IN AND BENEFIT FROM THE WASTEWATER TREATMENT PLANT CONSTRUCTION GRANTS PROGRAM. CONSISTS OF A CASE HISTORY OF THE CONSTRUCTION OF A TREATMENT FACILITY AND COLLECTION SYSTEM IN PARSIPPANY-TROY HILLS, NJ.

AVAILABILITY: NATIONAL AUDIO VISUAL CENTER, GENERAL SERVICES ADMINISTRATION, SALES BRANCH, WASHINGTON, D.C. 20409 ($98.50)

IRIS ACCESSION NUMBER: EW002237

PUBLICATION DATE: 75

TITLE: LYONS ENCYCLOPEDIA OF VALVES.

PERSONAL AUTHOR: LYONS, J. L.; ASKLAND, C.

DESCRIPTOR: *EQUIPMENT; *INDUSTRIAL TECHNOLOGY; INDUSTRY; INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: 290P.

ABSTRACT: PROVIDES INFORMATION ESSENTIAL TO PROPER DESIGN, MANUFACTURE, SELECTION, PURCHASE, INSTALLATION, USE, MAINTENANCE, AND SIZING OF VALVES AND RELATED FLUID CONTROL DEVICES. THIS INFORMATION IS BACKED UP WITH OVER 100 PHOTOGRAPHS OF VALVES AND COMPONENTS SUPPLIED BY MANY OF THE COUNTRY'S MAJOR MANUFACTURERS.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($18.95)

IRIS ACCESSION NUMBER: EW002239

PUBLICATION DATE: 75

TITLE: EFFLUENT CONTROL REQUIREMENTS FOR THE METAL FINISHING INDUSTRY (TTS 1).

PERSONAL AUTHOR: HIGGINS, P. M.; BUFFA, L.

DESCRIPTOR: *AUDIO CASSETTES; HEAVY METALS; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; RECYCLING; RESOURCE RECOVERY; *SYMPOSIA; *WASTE DISPOSAL; *WASTEWATER EFFLUENTS; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

ABSTRACT: INTRODUCTORY REMARKS AND EFFLUENT CONTROL REQUIREMENTS FOR THE METAL FINISHINC INDUSTRY RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY, HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002240

PUBLICATION DATE: 75

TITLE: EFFECTIVENESS OF MUNICIPAL TREATMENT PLANTS (TTS 3).

PERSONAL AUTHOR: ABBOTT, R. A.

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; RECYCLING; *RESOURCE RECOVERY; SYMPOSIA; *WASTE DISPOSAL; *WASTEWATER EFFLUENTS; WASTEWATER TREATMENT; *CANADA

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002241

PUBLICATION DATE: 75

TITLE: RECOVERY AND REUSE OF METALS AND CHEMICALS FROM METAL FINISHING WASTE (TTS 4).

PERSONAL AUTHOR: MATTOCK, G.

DESCRIPTOR: *AUDIO CASSETTES; *CHEMICALS; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; *RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; WASTE DISPOSAL; WASTEWATER TREATMENT; *CANADA

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002242

PUBLICATION DATE: 75

TITLE: PANEL DISCUSSION - METAL FINISHING INDUSTRY SEMINAR, PART 1 (TTS 5).

PERSONAL AUTHOR: ABBOTT, R. A.; AND OTHERS

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; *PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; *RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; WASTE DISPOSAL; WASTEWATER TREATMENT; *CANADA

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002243

PUBLICATION DATE: 75

TITLE: PANEL DISCUSSION - METAL FINISHING INDUSTRY SEMINAR, PART 2 (TTS 5A).

PERSONAL AUTHOR: ABBOTT, R. A.; AND OTHERS

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; WASTE DISPOSAL; WASTEWATER TREATMENT; *CANADA

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002244

PUBLICATION DATE: 75

TITLE: GEOGRAPHICAL DISTRIBUTION OF METAL FINISHING PLANTS IN CANADA (TTS 6).

PERSONAL AUTHOR: COULTER, K. R.

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; *RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *CANADA

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002245

PUBLICATION DATE: 75

TITLE: CENTRALIZED TREATMENT FACILITIES: TEN YEARS OF EXPERIENCE IN THE RUHR VALLEY, PART 1 (TTS 7).

PERSONAL AUTHOR: ROESLER, N.

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; WASTE DISPOSAL; *WASTEWATER TREATMENT; *GERMANY (RUHR VALLEY)

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002246

PUBLICATION DATE: 75

TITLE: CENTRALIZED TREATMENT FACILITIES: TEN YEARS OF EXPERIENCE IN THE RUHR VALLEY, PART 2 (TTS 7A).

PERSONAL AUTHOR: ROESLER, N.

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; WASTE DISPOSAL; *WASTEWATER TREATMENT; *GERMANY (RUHR VALLEY)

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002247

PUBLICATION DATE: 75

TITLE: PANEL DISCUSSION - METAL FINISHING INDUSTRY SEMINAR, PART 3 (ITS 8).

PERSONAL AUTHOR: ABBOTT, R. A.; AND OTHERS

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; *WASTE DISPOSAL; WASTEWATER TREATMENT; CANADA

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002248

PUBLICATION DATE: 75

TITLE: PANEL DISCUSSION - METAL FINISHING INDUSTRY SEMINAR, PART 4 (ITS 8A).

PERSONAL AUTHOR: ABBOTT, R. A.; AND OTHERS

DESCRIPTOR: *AUDIO CASSETTES; *HEAVY METALS; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *METALS; PHONOTAPE RECORDINGS; POST SECONDARY EDUCATION; *RECYCLING; *RESOURCE RECOVERY; *SYMPOSIA; *WASTE DISPOSAL; WASTEWATER TREATMENT; CANADA

ABSTRACT: RECORDED LIVE AT THE TECHNOLOGY TRANSFER SEMINAR ON WASTE HANDLING, DISPOSAL AND RECOVERY IN THE METAL FINISHING INDUSTRY HELD IN TORONTO, CANADA.

AVAILABILITY: AUDIO ARCHIVES OF CANADA, 250 MERTON STREET, TORONTO, ONTARIO, CANADA M4S 1B1 ($7.50)

IRIS ACCESSION NUMBER: EW002254

PUBLICATION DATE: 76

TITLE: MANAGING THE WATER ENVIRONMENT.

PERSONAL AUTHOR: SWAINSON, N. A.; AND OTHERS

DESCRIPTOR: DECISION MAKING; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAWS; MANAGEMENT; *POLLUTION; POST SECONDARY EDUCATION; *REGULATIONS; WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 266P. (ISBN 0-7748-0041-0)

ABSTRACT: EXAMINES THE COMPLEX AND IMPORTANT PROBLEMS BEHIND THE FAILURE TO MANAGE THE ENVIRONMENT EFFICIENTLY AND EFFECTIVELY. DISCUSSES THE POLITICAL AND LEGAL FRAMEWORK ENVIRONMENTAL MANAGERS MUST WORK WITHIN; ADDRESSES THE PROBLEMS ASSOCIATED WITH A DEMOCRATIC SOCIETY'S NEED TO HAVE THE WISHES OF THOSE AFFECTED BY ENVIRONMENTAL DECISIONS FAIRLY REPRESENTED IN THE DECISION-MAKING PROCESS; AND DEALS SPECIFICALLY WITH THE STRATEGIC OPTIONS OPEN TO THE WATER QUALITY MANAGER AND THE COMPLEXITIES OF REAL POLICY CHOICE.

AVAILABILITY: THE UNIVERSITY OF BRITISH COLUMBIA PRESS, 2075 WESTBROOK PLACE, VANCOUVER, B.C., CANADA V6T 1W5 ($15.50)

IRIS ACCESSION NUMBER: EW002259

PUBLICATION DATE: 71

TITLE: RECYCLING.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *RECYCLING; *RESOURCE RECOVERY; *SOLID WASTES; *WASTE DISPOSAL; CONSERVATION; INDUSTRIAL WASTES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16MM, 21 MIN. COLOR

ABSTRACT: SHOWS A VARIETY OF EFFORTS TO RECOVER AND USE MORE OF OUR DISCARDS. THIS APPROACH HAS THE DUAL BENEFIT OF CONSERVING OUR RESOURCES WHILE MINIMIZING THE EXPENSE AND DIFFICULTY OF SOLID WASTE DISPOSAL. ILLUSTRATES TECHNIQUES THAT ARE BEING INVESTIGATED AND DEMONSTRATED UNDER PROVISIONS OF THE SOLID WASTE DISPOSAL ACT. IDEAL FOR CLASSROOM AND COMMUNITY ACTION GROUP USE AND FOR LOCAL OFFICIALS TO EXPLAIN THE EMERGING NEW FIELD OF REUSE, RECOVERY AND RECYCLING.

AVAILABILITY: MODERN TALKING PICTURE SERVICE, 1687 ELMHURST ROAD, ELK GORVE VILLAGE, IL 60007 (FREE RENTAL).

IRIS ACCESSION NUMBER: EW002266

PUBLICATION DATE: 71

TITLE: WATER: THE EFFLUENT SOCIETY.

DESCRIPTOR: AUDIOVISUAL AIDS; DAMS; DESALINATION; *FILMS; *HYDROLOGY; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RECYCLING; *WATER RESOURCES; *WATER REUSE

DESCRIPTIVE NOTE: 16MM, 24 MIN., COLOR

ABSTRACT: THE MAIN THEME IS THE CONCEPT OF THE WATER CYCLE AS BEING A CLOSED, LIMITED SYSTEM. MAN, HOWEVER, IS USING UP THE SMALL QUANTITY OF FRESH WATER AVAILABLE TO USE. DISCUSSES POSSIBLE SOLUTIONS TO THE WATER CRISIS SUCH AS MORE EXTENSIVE DAMS, DESALINATION, INTERNATIONAL WATER TREATIES, AND MOST PROMISING, A MUNICIPAL WATER RECYCLING SYSTEM WHICH WOULD USE, PURIFY AND REUSE WATER INDEFINITELY.

AVAILABILITY: SYRACUSE UNIVERSITY FILM RENTAL CENTER, 1455 EAST COLVIN ST., SYRACUSE, NY 13210 ($30.00 RENTAL)

INSTITUTION NAME: SYRACUSE UNIVERSITY FILM RENTAL CENTER.

IRIS ACCESSION NUMBER: EW002355

PUBLICATION DATE: 75

TITLE: ASSESSING POTENTIAL OCEAN POLLUTANTS.

DESCRIPTOR: *MARINE ENVIRONMENT; *MONITORING; *OCEAN POLLUTION; *POLLUTANTS; *WATER POLLUTION CONTROL; AGRICULTURAL CHEMICALS; ANALYTICAL TECHNIQUES; CHEMICALS; ENVIRONMENT; INDUSTRIAL WASTES; OIL SPILLS; POLLUTION; POST SECONDARY EDUCATION; OCEANOLOGY

DESCRIPTIVE NOTE: 438P

ABSTRACT: REPORTS THE RESULTS OF A STUDY TO FIND WAYS TO PREDICT WHICH OF THE THOUSANDS OF SUBSTANCES THAT ENTER THE OCEAN SYSTEM THROUGH INDUSTRIAL, AGRICULTURAL, OR DOMESTIC ACTIVITIES MIGHT HAVE AN UNDESIRABLE ENVIRONMENTAL IMPACT OR JEOPARDIZE FUTURE OCEAN RESOURCES. DESCRIBES GENERAL METHODS FOR SCREENING POLLUTANTS ACCORDING TO SUCH CHARACTERISTICS AS PRODUCTION RATE, ENVIRONMENTAL PERSISTENCE, TOXICITY, AND BIOACCUMULATION. INCLUDES CASE STUDIES THAT ASSESS POTENTIAL EFFECTS OF TRANSURANIC ELEMENTS, SYNTHETIC ORGANIC CHEMICALS, METALLIC WASTES, AND MARINE LITTER.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, PRINTING AND PUBLISHING OFFICE, 2101 CONSTITUTION AVENUE NW, WASHINGTON, DC 20037 ($9.25)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES, OCEAN AFFAIRS BOARD.

IRIS ACCESSION NUMBER: EW002356

PUBLICATION DATE: 75

TITLE: UNDERGROUND DISPOSAL OF COAL MINE WASTES.

DESCRIPTOR: *ACID MINE DRAINAGE; GROUNDWATER; INDUSTRIAL WASTES; *LAND USE; *MINING INDUSTRY; POLLUTION; *UNDERGROUND DISPOSAL; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 172P.

ABSTRACT: ASSESSES THE TECHNOLOGICAL AND ECONOMIC FEASIBILITY OF RETURNING COAL MINE WASTES TO MINED OUT VOIDS. THIS DISPOSAL METHOD APPEARS TO BE TECHNOLOGICALLY FEASIBLE IN MOST ABANDONED MINES AND IN ACTIVE MINES WHERE LONGWALL MINING OR PARTIAL RECOVERY IS PRACTICED. CONSIDERATIONS INCLUDE LOSS OF POTENTIALLY RECOVERABLE COAL, LOSSES IN PRODUCTIVITY, SAFETY OF MINES, AND GROUNDWATER CONTAMINATION. PNEUMATIC, HYDRAULIC, AND MECHANICAL BACKFILLING METHODS ARE DISCUSSED.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, PRINTING AND PUBLISHING OFFICE, 2101 CONSTITUTION AVENUE NW, WASHINGTON, DC ($8.50)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES, OCEAN AFFAIRS BOARD.

IRIS ACCESSION NUMBER: EW002375

TITLE: CHEMICAL ANALYSIS OF ECOLOGICAL MATERIALS.

PERSONAL AUTHOR: ALLEN, S. E.

DESCRIPTOR: *CHEMICAL ANALYSIS; *ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MONITORING; *POST SECONDARY EDUCATION; SCIENCE EDUCATION

ABSTRACT: ANALYTICAL TECHNIQUES FOR MANY OF THE ANALYSES REQUIRED IN ECOLOGICAL STUDIES.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($39.95)

IRIS ACCESSION NUMBER: EW002376

TITLE: ECOLOGICAL ASPECTS OF TOXICITY TESTING OF OILS AND DISPERSANTS.

PERSONAL AUTHOR: BEYNON; COWELL

DESCRIPTOR: CHEMISTRY; *DISPERSING AGENTS; *ECOLOGY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *OIL; *POLLUTION; *POST SECONDARY EDUCATION; RESEARCH; *TOXICITY; WATER POLLUTION CONTROL; *TOXIC SUBSTANCES

ABSTRACT: PROCEDURES FOR EVALUATING TOXICITY OF OIL COMPOUNDS.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($15.50)

IRIS ACCESSION NUMBER: EW002377

TITLE: INTRODUCTION TO ENVIRONMENTAL SCIENCE AND TECHNOLOGY.

PERSONAL AUTHOR: MASTERS

DESCRIPTOR: *ENGINEERING EDUCATION; ENVIRONMENT; *ENVIRONMENTAL CONTROL; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SCIENCE EDUCATION; *TECHNOLOGY

ABSTRACT: INTRODUCTORY MATERIAL FOR THE SCIENCE OR ENGINEERING STUDENT IN ENVIRONMENTAL CONTROL.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($17.50)

IRIS ACCESSION NUMBER: EW002378

PUBLICATION DATE: 74

TITLE: PUMPING STATIONS FOR WATER AND SEWAGE.

PERSONAL AUTHOR: BARTLETT

DESCRIPTOR: *DESIGN; ENGINEERING; ENVIRONMENT; *EQUIPMENT; *FACILITIES; *INSTRUCTIONAL MATERIALS; IRRIGATION; *POST SECONDARY EDUCATION; *PUMPS; WASTEWATER DISPOSAL; *WASTEWATER TREATMENT; WATER RESOURCES; *WATER TREATMENT; *LIFT STATIONS

ABSTRACT: CONSIDERATIONS FOR THE DESIGN OF PUMPING STATIONS FOR BOTH WATER AND WASTEWATER.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($12.00)

IRIS ACCESSION NUMBER: EW002379

TITLE: SEA, VOLUME 5: MARINE CHEMISTRY.

PERSONAL AUTHOR: GOLDBERG

DESCRIPTOR: *CHEMISTRY; ENVIRONMENTAL CONTROL; *INSTRUCTIONAL MATERIALS; *MARINE BIOLOGY; *OCEANOLOGY; *POLLUTION; *POST SECONDARY EDUCATION; *WATER ANALYSIS; *WATER POLLUTION CONTROL; WATER QUALITY; *MARINE CHEMISTRY

ABSTRACT: THEORETICAL ASPECTS OF MARINE CHEMISTRY.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($47.25)

IRIS ACCESSION NUMBER: EW002380

TITLE: SEPARATION METHODS IN CHEMICAL ANALYSIS.

PERSONAL AUTHOR: MILLER

DESCRIPTOR: *CHEMICAL ANALYSIS; ENVIRONMENTAL CONTROL; *ENVIRONMENTAL TECHNICIANS; *FILTRATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *WATER ANALYSIS; WATER POLLUTION CONTROL; *PRECIPITATION

ABSTRACT: FILTRATION AND PRECIPITATION TECHNIQUES USED IN CHEMISTRY.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($18.00)

IRIS ACCESSION NUMBER: EW002381

PUBLICATION DATE: 77

TITLE: WATER AND WASTEWATER TECHNOLOGY.

PERSONAL AUTHOR: HAMMER, M. J.

DESCRIPTOR: *ENGINEERING EDUCATION; *ENVIRONMENTAL CONTROL; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SANITATION; SCIENCE EDUCATION; TECHNOLOGY; *WASTEWATER TREATMENT; *WATER QUALITY; *WATER TREATMENT

ABSTRACT: INTRODUCTORY TEXTBOOK TO SANITARY ENGINEERING.

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NY 10016 ($15.50)

IRIS ACCESSION NUMBER: EW002382

PUBLICATION DATE: 74

TITLE: ORGANOPHOSPHORUS PESTICIDES: ORGANIC AND BIOLOGICAL CHEMISTRY.

PERSONAL AUTHOR: ETO, M.

DESCRIPTOR: *AGRICULTURAL CHEMICALS; *BIOCHEMISTRY; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *ORGANOPHOSPHATES; *PESTICIDES; *TOXIC SUBSTANCES; DEGRADATION; METABOLITES; ORGANIC CHEMISTRY; POST SECONDARY EDUCATION; TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 375P. ORDER NO. ISBN 0-87819-023-6

ABSTRACT: REVIEWS THE IMPORTANT CHEMICAL REACTIONS OF ORGANOPHOSPHATES INCLUDING THE SYNTHESIS, ANALYSIS, METABOLISM, MODE-OF-ACTION, DEGRADATION AND OTHER CLOSEUP INTERESTING ASPECTS. DESCRIBES STRUCTURE-ACTIVITY RELATIONSHIP AND DISCUSSES IMPORTANT INDIVIDUAL PESTICIDES. CONSIDERS EACH ASPECT OF CHEMISTRY, BIOCHEMISTRY, AND THE APPLIED SCIENCES.

AVAILABILITY: CRC PRESS, INC. 2255 PALM BEACH LAKES BLVD. WEST PALM BEACH, FL 33409 ($57.50).

IRIS ACCESSION NUMBER: EW002386

TITLE: DESIGNERS GUIDE TO OSHA.

PERSONAL AUTHOR: HOPF, P. S.

DESCRIPTOR: ACCIDENT PREVENTION; *DESIGN; HEALTH; *INDUSTRIAL SAFETY; *INDUSTRY; *INSTRUCTIONAL MATERIALS; LAWS; *OSHA; *POST SECONDARY EDUCATION; *REGULATIONS; SAFETY

ABSTRACT: INFORMATION NEEDED BY DESIGNERS SO THAT THEIR EFFORTS WILL CONFORM TO OSHA REQUIREMENTS.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW002388

TITLE: PRINCIPLES OF HYDROLOGY.

PERSONAL AUTHOR: WARD, R. C.

DESCRIPTOR: *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION

ABSTRACT: INTRODUCTION TO HYDROLOGY FOR THE UNDERGRADUATE STUDENT.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($17.95)

IRIS ACCESSION NUMBER: EW002389

TITLE: SCIENTIFIC STREAM POLLUTION ANALYSIS.

PERSONAL AUTHOR: NEMOROW, N. L.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ASSIMULATIVE CAPACITY; *ENVIRONMENT; *WATER ANALYSIS; *WATER POLLUTION CONTROL; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; STREAM

ABSTRACT: TECHNIQUES TO BE USED FOR DETERMINING TH ASSIMILATIVE CAPACITY OF STREAMS.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF TH AMERICAS, NEW YORK, NY 10020 ($23.00).

IRIS ACCESSION NUMBER: EW002390

PUBLICATION DATE: 74

TITLE: DESIGNING WATER POLLUTION DETECTION SYSTEMS.

PERSONAL AUTHOR: WRIGHT, G. P.; OLSON, D. G.

DESCRIPTOR: ADMINISTRATIVE AGENCIES; ANALYTICAL TECHNIQUES DESIGN; EQUIPMENT; *INSTRUCTIONAL MATERIALS *INSTRUMENTATION; LAWS; *MARINE POLLUTION; *MONITORING *OCEANOLOGY; *OIL SPILLS; *POLLUTION; POST SECONDAR EDUCATION; REGULATIONS; STATISTICAL DATA; WATER ANALYSIS *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 228P.

ABSTRACT: PRESENTS A SYSTEM ANALYSIS OF OIL AND HAZARDOU MATERIALS DETECTION ON THE U.S. COASTAL WATERS AND GREA LAKES. POLLUTION STATISTICS FOR SEVERAL YEARS ARE CONTAINE IN THE BOOK. GIVES PROCEDURES FOR DESIGNING POLLUTI SURVEILLANCE SYSTEMS FOR USE WITH SENSOR EQUIPPED AIRCRAFT. DESCRIBES GOVERNMENT AGENCIES RESPONSIBILITIES IN POLLUTIO CONTROL. LAWS DESCRIBED.

AVAILABILITY: BALLINGER PUBLISHING CO., 17 DUNSTER ST. CAMBRIDGE, MA 02138 ($20.00)

IRIS ACCESSION NUMBER: EW002402

PUBLICATION DATE: 75

TITLE: POLLUTION CONTROL IN THE PLASTICS AND RUBBE INDUSTRY.

PERSONAL AUTHOR: SITTIG, M.

DESCRIPTOR: *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS *MANUFACTURING INDUSTRY; OPERATIONS; *PLASTICS INDUSTRY *POLLUTANTS; POLLUTION; POST SECONDARY EDUCATION; *RUBBE INDUSTRY

DESCRIPTIVE NOTE: 306P. (ISBN 0-8155-0572-8)

ABSTRACT: COMPREHENSIVE TREATISE ON PLASTICS AND RUBBE MANUFACTURING PROCESSES AND PRODUCT FINISHING.

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, MILL ROA AT GRAND AVENUE, PARK RIDGE, NJ 07656 ($36.00)

IRIS ACCESSION NUMBER: EW002404

PUBLICATION DATE: 74

TITLE: PHYSICAL SCIENCE READINGS ON THE ENVIRONMENT.

PERSONAL AUTHOR: WILSON, J. D.; BAKER, S. D.

DESCRIPTOR: *BIOLOGY; *CHEMISTRY; *ECOLOGY; ENVIRONMENT *INSTRUCTIONAL MATERIALS; PHYSICAL SCIENCES; *POST SECONDAR EDUCATION; REFERENCE MATERIALS; *SCIENCE EDUCATION

DESCRIPTIVE NOTE: 384P.

ABSTRACT: INTRODUCTION TO INTERACTION OF PHYSICAL, CHEMICA AND BIOLOGICAL PROCESSES IN NATURE.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET LEXINGTON, MA 02173 ($6.95)

IRIS ACCESSION NUMBER: EW002405

PUBLICATION DATE: 73

TITLE: POLLUTION IN THE ELECTRIC POWER INDUSTRY - IT CONTROL AND COST.

PERSONAL AUTHOR: SCOTT, D. L.

DESCRIPTOR: *ECONOMICS; *ELECTRICITY; *ENERGY; *FEDERA REGULATIONS; *INDUSTRY; *POLLUTION; *TECHNICAL REPORTS ENVIRONMENT; POLLUTANTS INDUSTRIAL; POST SECONDAR EDUCATION

DESCRIPTIVE NOTE: 128P. (LC 73-6559) (ISBN 0-669-89219-X) NOTES, FIGURES, TABLES, BIBLIOGRAPHY, INDEX

ABSTRACT: EXAMINES PRESENT AND FUTURE ENVIRONMENTA CONCERNS ASSOCIATED WITH THE GENERATION OF ELECTRICAL POWER AN ECONOMIC ANALYSIS OF A TECHNICAL PROBLEM AND AN OVERVIE OF THE ELECTRIC POWER INDUSTRY AS A WHOLE. THE NATURE O GOVERNMENTAL REGULATION OVER THE INDUSTRY IS SEEN AS TH DETERMINING FACTOR IN DECIDING WHO WILL ABSORB INCREASE COSTS.

AVAILABILITY: D. C. HEATH CO. 125 SPRING STREET, LEXINGTON MA 02173 ($12.50).

IRIS ACCESSION NUMBER: EW002413

PUBLICATION DATE: 74

TITLE: DYES AND THE ENVIRONMENT, VOLUME 1.

DESCRIPTOR: AQUATIC MICROBIOLOGY; CHEMICAL INDUSTRY CHEMICALS; *DYES; ECOLOGY; *ENVIRONMENT; *FISH; *HEAV

METALS; INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; MARINE POLLUTION; *METALS; MICROBIOLOGY; POLLUTION; POST SECONDARY EDUCATION; *TOXICOLOGY; *WATER ANALYSIS; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: COST OF TWO VOLUME SET: $30.00; SEE EW002461 FOR VOLUME 2

ABSTRACT: EXAMINES HEAVY METAL CONTENT OF DYES. PROVIDES COLOR MEASUREMENT METHOD. EXAMINES TOXICITY OF DYES TO FISH, AEROBIC AND ANAEROBIC ORGANISMS.

AVAILABILITY: AMERICAN DYE MANUFACTURERS INSTITUTE, INC., 1 EAST 57TH ST., NEW YORK, NY 10022

INSTITUTION NAME: AMERICAN DYE MANUFACTURERS INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW002417

PUBLICATION DATE: AUG 74

TITLE: ENVIRONMENTAL ENGINEERS HANDBOOK, VOLUME 1 - WATER POLLUTION.

DESCRIPTOR: *ENGINEERING; ENVIRONMENT; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; *MANUALS; OPERATIONS; *POLLUTANTS; POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; WATER QUALITY

ABSTRACT: BROAD COVERAGE OF ALL ASPECTS OF WATER POLLUTION CONTROL.

AVAILABILITY: CHILTON BOOK CO., 401 WALNUT STREET, PHILADELPHIA, PA 19106 ($39.00)

INSTITUTION NAME: CHILTON BOOK CO.

IRIS ACCESSION NUMBER: EW002418

PUBLICATION DATE: 75

TITLE: CHLORINE TANK CAR UNLOADING.

DESCRIPTOR: *ACCIDENT PREVENTION; CHEMISTRY; *CHLORINE; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; TRANSPORTATION

DESCRIPTIVE NOTE: 20P. DRAWINGS INCLUDED, NO. 61

ABSTRACT: PROVIDES RECOMMENDATIONS AND USEFUL INFORMATION TO ANYONE CONCERNED WITH RECEIVING, INSPECTING AND UNLOADING FROM SINGLE-UNIT AND MULTIPLE-UNIT CHLORINE TANK CARS.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVENUE, NEW YORK, NY 10017 ($1.75)

INSTITUTION NAME: THE CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW002419

PUBLICATION DATE: 76

TITLE: OPERATION AND MAINTENANCE OF WASTEWATER COLLECTION SYSTEMS: A FIELD STUDY TRAINING PROGRAM.

PERSONAL AUTHOR: KERRI, K., ED.; BRADY, J., ED.

DESCRIPTOR: EQUIPMENT; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *MAINTENANCE; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; *PUMPS; RECORDS; SAFETY; TROUBLESHOOTING; WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1711P. 300 SLIDES; REVISED ANUALLY; ALSO AVAILABLE ON ERIC MICROFICHE ED150007

ABSTRACT: WRITTEN BY EXPERIENCED COLLECTION SYSTEM WORKERS (MAINTENANCE MEN) WITH THE INTENT OF PROVIDING COLLECTION SYSTEMS WORKERS WITH THE INFORMATION THEY NEED TO KNOW TO OPERATE AND MAINTAIN THEIR COLLECTION SYSTEMS AS SAFELY AND AS EFFICIENTLY AS POSSIBLE. TOPICS COVERED INCLUDE JOB OPPORTUNITIES, WHY OPERATION AND MAINTENANCE, COMPONENTS OF SYSTEM, REVIEW OF PLANS AND SPECS, INSPECTION, TESTING, TELEVISING SEWERS, BALLING HIGH VELOCITY CLEANERS, SCOOTERS, KITES, RODDING, BUCKETS, REPAIRS, LIFT STATIONS, MAINTENANCE, RECORDS.

AVAILABILITY: DEPARTMENT OF CIVIL ENGINEERING, CALIFORNIA STATE UNIVERSITY AT SACRAMENTO, 6000 JAY STREET, SACRAMENTO, CA 95819 ($30.00)

IRIS ACCESSION NUMBER: EW002421

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL IMPACT STATEMENT: A REFERENCE MANUAL FOR THE ARCHITECT/PLANNER, 2ND ED.

PERSONAL AUTHOR: LEE, K.

DESCRIPTOR: *ADMINISTRATIVE AGENCIES; *DESIGN; *ENVIRONMENTAL IMPACT STATEMENTS; *INSTRUCTIONAL MATERIALS; LAWS; *MANUALS; *PLANT CONSTRUCTION; POST SECONDARY EDUCATION; *REGULATIONS

DESCRIPTIVE NOTE: 265P. (ISBN 0-915250-06-3)

ABSTRACT: CONTAINS DETAILED PROCEDURE AND CONTENT REQUIREMENTS FOR WRITING ENVIRONMENTAL IMPACT STATEMENT. DETAILS AN ENVIRONMENTAL IMPACT ANALYSIS METHOD THAT CONSISTS OF FOUR STEPS; INVENTORY, GOALS, ANALYSIS, AND EVALUATION. INCLUDES AN ENVIRONMENTAL INFORMATION MATRIX OF 400 EXISTING ENVIRONMENTAL CHARACTERISTICS AND 200 PROPOSED ACTIONS. TELLS YOU WHO PREPARES EIS, WHO ARE THE AUDIENCE, THE COST OF WRITING ONE, WHEN AND WHAT TO WRITE, AND MORE.

AVAILABILITY: ENVIRONMENTAL DESIGN AND RESEARCH CENTER, 938 PARK SQUARE BUILDING, BOSTON, MA 02116 ($30.00)

IRIS ACCESSION NUMBER: EW002436

PUBLICATION DATE: 75

TITLE: LIVING IN THE ENVIRONMENT - CONCEPTS, PROBLEMS, AND ALTERNATIVES.

PERSONAL AUTHOR: MILLER, G. T.

DESCRIPTOR: *DESIGN; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PLANNING; POLLUTION; POLLUTION CONTROL; *POST SECONDARY EDUCATION

ABSTRACT: PLANNING CONCEPTS TO BE CONSIDERED IN ENVIRONMENTAL CONTROL.

AVAILABILITY: WADSWORTH PUBLISHING CO., BELMONT, CA 94002 ($14.95)

IRIS ACCESSION NUMBER: EW002447

PUBLICATION DATE: 74

TITLE: PROCESSING AND MANAGEMENT OF AGRICULTURAL WASTES.

DESCRIPTOR: *AGRICULTURAL ENGINEERING; *AGRICULTURE; *DESIGN; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *TECHNICAL REPORTS; *WASTE DISPOSAL; AGRICULTURAL CHEMICAL OCCUPATIONS; ENGINEERING EDUCATION

ABSTRACT: TECHNIQUES FOR DESIGN OF AGRICULTURAL WASTE HANDLING SYSTEMS.

AVAILABILITY: AGRICULTURAL WASTE MANAGEMENT PROGRAM, 207 RILEY-ROBB HALL, CORNELLL UNIVERSITY, ITHACA, NY 14853 ($15.00)

INSTITUTION NAME: AGRICULTURAL WASTE MANAGEMENT PROGRAM, CORNELL UNIVERSITY.

IRIS ACCESSION NUMBER: EW002453

PUBLICATION DATE: 75

TITLE: WATER POLLUTION CONTROL IN LOW DENSITY AREAS.

PERSONAL AUTHOR: SWAN; JEWELL

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; MANAGEMENT; *MUNICIPAL WASTES; OPERATIONS; *POLLUTION; *POST SECONDARY EDUCATION; *RURAL AREAS; RURAL DEVELOPMENT; *WATER POLLUTION CONTROL; *WATER QUALITY; *WASTEWATER TREATMENT

ABSTRACT: HOW TO HANDLE WATER QUALITY CONTROL PROBLEMS IN SPARCELY SETTLED AREAS.

AVAILABILITY: UNIVERSITY PRESS OF NEW ENGLAND, BOX 979, HANOVER, NH 03755 ($25.00)

IRIS ACCESSION NUMBER: EW002460

PUBLICATION DATE: 74

TITLE: WASTES - SOLIDS, LIQUIDS, AND GASES: PAPERS PRESENTED AT THE 1967-70 ACHEMA MEETINGS.

PERSONAL AUTHOR: WULFINGHOFF, M.

DESCRIPTOR: AIR POLLUTION CONTROL; CONFERENCES; *DESIGN; *FACILITIES; *INDUSTRIAL WASTES; *POLLUTANTS; POLLUTION; *WASTEWATER DISPOSAL; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

ABSTRACT: RECENT DEVELOPMENT IN THE DESIGN OF TREATMENT SYSTEMS.

AVAILABILITY: CHEMICAL PUBLISHING CO., INC., 200 PARK AVENUE SOUTH, NEW YORK, NY 10003 ($25.00 PLUS $1.25 POSTAGE AND SHIPPING)

IRIS ACCESSION NUMBER: EW002461

PUBLICATION DATE: 76

TITLE: DYES AND THE ENVIRONMENT, VOLUME 2.

DESCRIPTOR: *ALGAE; BIOLOGY; CHEMICAL INDUSTRY; CHEMICALS; *DYES; *ENVIRONMENT; *FISH; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *MARINE POLLUTION; POLLUTION; POST SECONDARY EDUCATION; *TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: COST OF TWO VOLUME SET: $30.00; SEE EW002413 FOR VOLUME 1

ABSTRACT: EXAMINES TOXICITY OF DYES TO ALGAE AND TO FISH. EXAMINES EFFECT OF BIOLOGICAL TREATMENT OF DYES ON TOXICITY TO FISH.

AVAILABILITY: AMERICAN DYE MANUFACTURERS INSTITUTE, INC., 1 EAST 57TH ST., NEW YORK, NY 10022

INSTITUTION NAME: AMERICAN DYE MANUFACTURERS INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW002510

ERIC ACCESSION NUMBER: ED148583

PUBLICATION DATE: JUN 76

TITLE: MANAGEMENT AND SUPERVISION PROCEDURES FOR WASTEWATER FACILITIES, WASTEWATER TECHNOLOGY: A TWO-YEAR POST HIGH SCHOOL INSTRUCTIONAL PROGRAM. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS. VOLUME IV.

PERSONAL AUTHOR: MASON, GEORGE J.; AND OTHERS

INSTITUTION CODE: BBB09266; BBB10105; BBB12691; UZ015525

SPONSORING AGENCY CODE: BBB12618

DESCRIPTOR: BEHAVIORAL OBJECTIVES; CURRICULUM; EDUCATIONAL PROGRAMS; ENVIRONMENT; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *POLLUTION; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 93P.; FOR RELATED DOCUMENTS, SEE SE 023 407-410 AND SE 023 432

ISSUE: RIEMAY78

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH OUTLINES PERFORMANCE OBJECTIVES AND INSTRUCTIONAL MODULES FOR A COURSE OF STUDY IN THE MANAGEMENT OF WASTEWATER TREATMENT PLANTS. THE MODULES ARE ARRANGED IN AN ORDER APPROPRIATE FOR TEACHING STUDENTS WITH NO EXPERIENCE. THE MODULES CAN ALSO BE REARRANGED AND ADAPTED FOR COURSES TO UPGRADE PERSONNEL MOVING INTO SUPERVISORY POSITIONS OR DESIGNED AS A MINICOURSE. EACH MODULE CONTAINS A STATEMENT OF PURPOSE, OBJECTIVES, CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR ACTIVITY AND STUDENT ACTIVITY. THE TASKS ARE ORGANIZED INTO THE GENERAL CATEGORIES OF: NORMAL OPERATION, ABNORMAL OPERATION, PREVENTIVE MAINTENANCE, CORRECTIVE MAINTENANCE, LABORATORY CONTROL, SYSTEMS INTERACTION, AND MANAGEMENT/SUPERVISORY PROCEDURES. THIS VOLUME EMPHASIZES MANAGEMENT AND SUPERVISION PROCEDURES FOR WASTEWATER FACILITIES. INCLUDED ARE 19 MODULES. EACH IS CONCERNED WITH A SPECIFIC ASPECT OF MANAGEMENT/SUPERVISION INCLUDING REPORTS, BUDGETS, PERSONNEL, PUBLIC CONTACTS, FUNDING, AND PUBLIC RELATIONS. (CS)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.; CLEMSON UNIV., S.C.; GREENVILLE TECHNICAL COLL., S.C.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.

IRIS ACCESSION NUMBER: EW002564

PUBLICATION DATE: 73

TITLE: WATER WELL TECHNOLOGY.

PERSONAL AUTHOR: CAMPBELL, MICHAEL D.; LEHR, JAY H.

DESCRIPTOR: COST EFFECTIVENESS; *ENGINEERING TECHNOLOGY; ENVIRONMENTAL INFLUENCES; GEOLOGY; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POLLUTION; *POST SECONDARY EDUCATION; SCIENTIFIC RESEARCH; TECHNOLOGY; *WATER POLLUTION CONTROL; *WATER RESOURCES; *GROUNDWATER; *WATER WELLS

DESCRIPTIVE NOTE: 681P.

ABSTRACT: THIS BOOK DISCUSSES THE CURRENT STATE OF THE ART REGARDING THE ECONOMIC DEVELOPMENT, CONSERVATION, AND POLLUTION CONTROL OF GROUND WATER. THE TEXT REVIEWS WELL CONSTRUCTION METHODS AND TECHNIQUES USED IN THE PETROLEUM, MINING AND GROUND WATER INDUSTRIES. ALSO INCLUDED ARE THE COMPLEX PROBLEMS SUCH AS INEFFICIENCIES IN WATER SUPPLY PRODUCTION, WATER QUALITY DETERIORATION AND INEQUITIES IN WATER SYSTEM ECONOMICS. SPECIFIC TOPICS INCLUDE GROUND WATER POLLUTION; ROCK DRILL ABILITY; CABLE-TOOL, ROTARY, VARIATIONS OF COMMON DRILLING SYSTEMS; FORMATION IDENTIFICATION AND EVALUATION; AND WELL HYDRAULICS, DESIGN, CONSTRUCTION, EFFICIENCY, MAINTENANCE AND COST ANALYSIS. THE APPENDICES INCLUDE MISCELLANEOUS CHARTS, TABLES AND GUIDES AND A GLOSSARY OF PETROLEUM, MINING, AND GROUND WATER TERMS. (CS)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MD 63011 ($26.00)

IRIS ACCESSION NUMBER: EW002587

PUBLICATION DATE: 76

TITLE: TELL ME ABOUT YOURSELF.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *JOB INTERVIEWS; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: 16MM, 25 MIN., COLOR

ABSTRACT: COMPLETE OVERVIEW OF AN EMPLOYMENT INTERVIEW FROM BEGINNING TO END. UNIQUE CHANCE TO GO BEHIND THE SCENES AND OBSERVE THE INTERVIEWER'S THOUGHTS AND CONCERNS AS SHE THINKS HER WAY THROUGH THE PROBLEMS AND OPPORTUNITIES OF A TYPICAL EMPLOYMENT INTERVIEW. HELPS INTERVIEWERS SELECT EXACTLY THE RIGHT PERSON FOR THE RIGHT JOB.

AVAILABILITY: ROUNDTABLE FILMS, INC., 113 NORTH SAN VINCENTE BLVD., BEVERLY HILLS, CA 90211 ($70.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW002588

PUBLICATION DATE: 76

TITLE: WHERE ARE YOU? WHERE ARE YOU GOING.

DESCRIPTOR: *FILMS; *INSTRUCTIONAL MATERIALS; *INTERVIEWS; *JOB ANALYSIS; *MANAGEMENT; *SUPERVISION; AUDIOVISUAL AIDS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16MM, 24 MIN. COLOR

ABSTRACT: OPPORTUNITY FOR MANAGERS TO OBSERVE, REFLECT UPON AND LEARN FROM A MODEL PERFORMANCE APPRAISAL FROM THE PREPARATORY STAGE RIGHT THROUGH THE CONCLUSION OF THE INTERVIEW. FOCUSES ON THE APPREHENSION OF A YOUNG MANAGER AS SHE APPROACHES HER FIRST APPRAISAL INTERVIEW SEVERAL MONTHS AFTER RECEIVING HER NEW ASSIGNMENT AND THE TECHNIQUES HER SUPERIOR USES TO PUT HER AT EASE AND PROBE THE PROBLEM AREAS OF HER WORK. OPTIONAL STOPS ARE BUILT IN TO HELP FOCUS ON ALL THE STAGES OF THE PERFORMANCE INTERVIEW.

AVAILABILITY: ROUNDTABLE FILMS, INC. 113 NORTH SAN VINCENTE BLVD. BEVERLY HILLS, CA 90211 ($70.00 RENTAL)

INSTITUTION NAME: ROUNDTABLE FILMS, INC.

IRIS ACCESSION NUMBER: EW002589

PUBLICATION DATE: 74

TITLE: BIOLOGICAL MONITORING FOR INDUSTRIAL CHEMICAL EXPOSURE CONTROL.

PERSONAL AUTHOR: LINCH, A. L.

DESCRIPTOR: AIR POLLUTION CONTROL; *CHEMICALS; ENVIRONMENTAL CONTROL; HAZARDS; *HEALTH; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MONITORING; *POLLUTION; *POST SECONDARY EDUCATION; *HAZARDOUS MATERIALS; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 188P. (CAT. NO. 5075 FC) (ISBN 0-87819-048-X)

ABSTRACT: HOW MUCH OF THE HAZARDOUS SUBSTANCE WAS ABSORBED AND HOW DID THE EXPOSURE EFFECT THE WORKMAN MUST BE DERIVED FROM DIRECT QUANTATIVE ANALYSIS OF EXPIRED AIR, BODY FLUIDS, OR TISSUE FOR THE PRESENCE OF THE HAZARDOUS SUBSTANCE OR ITS METABOLITES, AND BY INDIRECT DETERMINATION OF THE MAGNITUDE OF ITS EFFECT ON THE FUNCTIONING OF THE TARGET ORGANS OR TISSUES. OBSERVATIONS OF ACTUAL RESPONSE ARE THE ULTIMATE TEST TOXICOLOGICAL HAZARD, THOUGH ANIMAL EXPERIMENTS ARE NECESSARY IN PROPER PERSPECTIVE. QUANTATIVE STANDARDS FOR HUMAN SAFETY CAN BE ESTABLISHED ONLY THROUGH EXPERIENCE.

AVAILABILITY: CRC PRESS, INC., 18901 CRANWOOD PKWY., CLEVELAND, OH 44128 ($43.95)

IRIS ACCESSION NUMBER: EW002591

PUBLICATION DATE: 70

TITLE: FLUORIDATION.

PERSONAL AUTHOR: MAIER, F. J.

DESCRIPTOR: *DENTAL HEALTH; *FLUORIDATION; *FLUORIDES; HEALTH; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PUBLIC HEALTH; TECHNICAL REPORTS; WATER ANALYSIS; *WATER CHARACTERISTICS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 53P. CAT. NO. 0118FC

ABSTRACT: DISCUSSES FLUORIDES IN WATER AND THEIR EFFECTS ON DENTAL HEALTH; THE ADDITION OF FLUORIDES TO WATER, WHERE NEEDED, QUANTITIES REQUIRED, AND THE DESIGN OF THE FLUORIDATION SYSTEM; DEFLUORIDATION OF WATER.

AVAILABILITY: CRC PRESS, INC., 18901 CRANWOOD PKWY., CLEVELAND, OH 44128 ($11.95)

IRIS ACCESSION NUMBER: EW002592

PUBLICATION DATE: 70

TITLE: PHYSICAL AND ENGINEERING ASPECTS OF THERMAL POLLUTION.

PERSONAL AUTHOR: PARKER, F. L.

DESCRIPTOR: ECOLOGY; *ELECTRIC POWER; *ENGINEERING; ENVIRONMENTAL CONTROL; HEAT; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; TECHNICAL REPORTS; *THERMAL ENVIRONMENT; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 100P. (CAT. NO. 0102FC) (ISBN 0-87819-102-X)

ABSTRACT: MAJOR SOURCES OF THERMAL POLLUTION, INCLUDING CENTRAL GENERATING STATIONS, ARE DISCUSSED IN DETAIL. COVERAGE EXPLORES THE RATE OF COOLING WATER REQUIREMENTS, THE POSSIBILITIES OF IMPROVED EFFICIENCIES IN ELECTRICITY PRODUCTION, THE LIMITED AVAILABILITY OF COOLING WATER AND THE MECHANISMS AND MEANS OF HEAT DISSIPATION. TWO CHAPTERS ARE DEVOTED TO THE EFFECTS OF HEATED DISCHARGES UPON THE BIOTA AND HYDRO-DYNAMICS OF THE RECEIVING WATER.

AVAILABILITY: CRC PRESS, INC., 18901 CRANWOOD PKWY., CLEVELAND, OH 44128 ($11.95)

IRIS ACCESSION NUMBER: EW002613

PUBLICATION DATE: 75

TITLE: OCEAN WASTE DISPOSAL PRACTICES.

PERSONAL AUTHOR: REED, A. W.

DESCRIPTOR: *INDUSTRIAL WASTES; *MARINE ENVIRONMENT; *OCEAN POLLUTION; *POLLUTANTS; *WATER POLLUTION CONTROL; ECOLOGY; ENVIRONMENT; OCEANOLOGY; POLLUTION; RESEARCH; WASTE DISPOSAL

DESCRIPTIVE NOTE: 334P. (ISBN 0-8155-0591-4)

ABSTRACT: AN EVALUATION OF WASTE DISCHARGES AND PRACTICES AS THEY AFFECT THE LITTORAL REGIONS OF THE UNITED STATES, WITH MANY PROJECTIONS OF THE ULTIMATE INFLUENCE UPON THE WORLD OCEAN. THE PROBLEMS OF RAPIDLY INCREASING WASTE LOADS ARISING FROM THE EXPONENTIAL INCREASE OF POPULATIONS MAKE A CONSTANT REVIEW OF THE ASSIMILATION CAPACITY OF COASTAL WATERS A PRESSING NECESSITY. PROVIDES SCIENTIFIC FINDINGS, EVALUATIONS, AND CONCLUSIONS WITH RESPECT TO POSSIBLE LONG RANGE EFFECTS OF OCEANIC POLLUTION AND MAN-INDUCED CHANGES OF OCEAN ECOSYSTEMS.

AVAILABILITY: NOYES DATA CORP. NOYES BUILDING, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656 ($24.00).

IRIS ACCESSION NUMBER: EW002614

PUBLICATION DATE: 75

TITLE: DECISION MAKING FOR REGULATING CHEMICALS IN THE ENVIRONMENT.

DESCRIPTOR: *CHEMICALS; *DECISION MAKING; *ENVIRONMENT; POLLUTANTS; *POLLUTION; *REGULATIONS

DESCRIPTIVE NOTE: 232P. (ISBN 0-309-02401-3)

ABSTRACT: DEALS WITH FOUR AREAS THAT ARE CONSIDERED TO BE THE MOST IMPORTANT FOR AN EQUITABLE AND RATIONAL DECISION-MAKING PROCESS. THESE FOUR AREAS ARE: THE STATUTORY AND ORGANIZATIONAL BASIS FOR REGULATION; OPENNESS AND ACCESS TO THE DECISION-MAKING PROCESS; THE AVAILABILITY OF ADEQUATE AND RELIABLE INFORMATION; AND THE PROPER USE OF ANALYSIS.

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, PRINTING AND PUBLISHING OFFICE, 2101 CONSTITUTION AVE., NW, WASHINGTON, DC ($12.75)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

RIS ACCESSION NUMBER: EW002615

UBLICATION DATE: 75

ITLE: COLLECTIVE DECISION MAKING IN WATER RESOURCE LANNING.

ERSONAL AUTHOR: BURKE, R.; HEANEY, J. P.

ESCRIPTOR: *DECISION MAKING; ENGINEERING; *ENVIRONMENTAL ONTROL; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *PLANNING; POST SECONDARY EDUCATION; WASTEWATER DISTRICTS; WASTEWATER REATMENT; *WATER RESOURCES

ESCRIPTIVE NOTE: 352P. (LC 75-603) (ISBN 0-669-98178-8), OTES, TABLES, FIGURES, BIBLIOGRAPHY, INDEX

BSTRACT: FOCUSES ON WATER RESOURCE PLANNING AND DECISION-AKING WHICH, BY DEFINITION, SPAN ALL WATER-RELATED ACTIONS, VENTS, AND CONCERNS FROM THE INITIAL AWARENESS OF NEEDS HROUGH THE FINAL IMPLEMENTATION OF PROGRAMS DESIGNED TO ATISFY THOSE NEEDS.

VAILABILITY: D. C. HEATH CO., 125 SPRING STREET, EXINGTON, MA 02173 ($19.50)

IRIS ACCESSION NUMBER: EW002617

UBLICATION DATE: 76

ITLE: ENVIRONMENTAL POLICY AND ADMINISTRATIVE CHANGE.

ERSONAL AUTHOR: ANDREWS, R. N.

ESCRIPTOR: *AGENCIES; *ENVIRONMENTAL CONTROL; *FEDERAL EGISLATION; *FEDERAL REGULATIONS; LAWS; NATURAL RESOURCES; POLICY; POST SECONDARY EDUCATION; REGULATIONS; WATER ESOURCES

DESCRIPTIVE NOTE: (LC 76-7265) (ISBN 0-669-00682-3)

ABSTRACT: EXAMINES THE PATTERNS OF FEDERAL AGENCY RESPONSE TO THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1970. BASED UPON SOME OF THE MORE THAN 6000 ENVIRONMENTAL IMPACT STATEMENTS ISSUED SINCE THE PASSAGE OF THE NEPA.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET, LEXINGTON, MA 02173 ($18.50)

IRIS ACCESSION NUMBER: EW002618

PUBLICATION DATE: 75

TITLE: FEDERALISM AND CLEAN WATERS - THE 1972 WATER POLLUTION CONTROL ACT.

PERSONAL AUTHOR: LIEBER, H.; ROSINOFF, B.

DESCRIPTOR: *ENVIRONMENTAL CONTROL; *FEDERAL LEGISLATION; *FEDERAL STATE RELATIONSHIPS; *LAWS; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; WATER RESOURCES; *WATER POLLUTION CONTROL ACT

DESCRIPTIVE NOTE: 304P. (LC 74-33980) (ISBN 0-669-99150), TABLES, APPENDIXES, FIGURES, NOTES, BIBLIOGRAPHY

ABSTRACT: EXAMINES THE WATER POLLUTION CONTROL ACT. DISSECTS THE INTERGOVERNMENTAL IMPLICATIONS OF THE ACT, ITS INITIAL IMPLEMENTATION, AND THE CHANGING ROLE OF STATE-LEVEL WATER POLLUTION CONTROL PROGRAMS. DEMONSTRATES THE DIFFICULTY OF APPLYING ONE FEDERAL LAW IN 50 STATES.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET, LEXINGTON, MA 02173 ($18.50)

IRIS ACCESSION NUMBER: EW002619

PUBLICATION DATE: 75

TITLE: WATER AND SEWER DEVELOPMENT IN RURAL AMERICA - A STUDY OF COMMUNITY IMPACTS.

PERSONAL AUTHOR: WARNER, D.; DAJANI, J. S.

DESCRIPTOR: *COMMUNITY DEVELOPMENT; *ECONOMICS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *RURAL DEVELOPMENT; RURAL ENVIRONMENT; *SEWERS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 144P. (LC 75-18345) (ISBN 0-669-00128-7), NOTES, TABLES, FIGURES, APPENDIXES, BIBLIOGRAPHY

ABSTRACT: RURAL COMMUNITY DEVELOPMENT IS THE RESULT OF MANY FACTORS. IN THIS STUDY THE IMPACT OF ONE SUCH FACTOR, IMPROVED WATER AND SEWER SYSTEMS, IS DISCUSSED FROM BOTH ENVIRONMENTAL AND HUMAN STANDPOINTS.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET, LEXINGTON, MA 02173 ($14.00)

IRIS ACCESSION NUMBER: EW002620

PUBLICATION DATE: 73

TITLE: POLITICAL ECONOMY OF AMERICAS ENVIRONMENTAL DILEMMA.

PERSONAL AUTHOR: BRENNER, M. J.

DESCRIPTOR: *ECOLOGY; *ECONOMICS; *ENVIRONMENTAL CONTROL; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; NEEDS ASSESSMENT; *POLICY FORMATION; *POLITICS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 177P. (LC 73-11685) (ISBN 0-669-90910-6), NOTES, TABLES, APPENDIXES, BIBLIOGRAPHY

ABSTRACT: POSES THE CENTRAL ISSUES OF ENVIRONMENTAL POLICY-MAKING WHILE EXAMINING THE INTELLECTUAL AND INSTITUTIONAL RESPONSE TO THE CHALLENGE IT PRESENTS. THE STUDY OFFERS BOTH AN EVALUATION OF THE PRESENT ENVIRONMENTAL STATE OF AFFAIRS AND AN INCISIVE CRITIQUE OF THE QUALITIES AND CONDITIONS OF AMERICAN PUBLIC LIFE THAT THE ECOLOGY MOVEMENT HAS REVEALED.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET, LEXINGTON, MA 02173 ($14.00)

IRIS ACCESSION NUMBER: EW002621

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL CONTROLS - IMPACT ON INDUSTRIES.

PERSONAL AUTHOR: LEONE, R. A.

DESCRIPTOR: *ECONOMICS; *ENVIRONMENTAL CONTROL; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *LAWS; *REGULATIONS; MANUFACTURING INDUSTRY; PETROLEUM INDUSTRY; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (LC 75-32222) (ISBN 0-669-00345-X)

ABSTRACT: EXAMINES THE EFFECT OF ENVIRONMENTAL CONTROL LEGISLATION ON SIX MANUFACTURING INDUSTRIES. DEMONSTRATES THAT LARGE PERCENTAGES OF TOTAL INDUSTRY CAPACITY CAN BE CLEANED UP AT A REASONABLY UNIFORM (AND OFTEN LOW) COST. INVESTIGATES THE COST DIFFERENCE WITHIN VARIOUS SEGMENTS OF EACH OF SIX INDUSTRIES: PETROLEUM REFINING, PULP AND PAPER, STEEL, TEXTILES, ALUMINUM, AND METAL FINISHING.

AVAILABILITY: D. C. HEATH CO. 125 SPRING STREET, LEXINGTON, MA 02173 ($14.00).

IRIS ACCESSION NUMBER: EW002622

PUBLICATION DATE: 75

TITLE: SYSTEM APPROACH TO WATER DISTRIBUTION.

PERSONAL AUTHOR: DEMOYER, R.; HORWITZ, L. B.

DESCRIPTOR: *ENGINEERING; *INSTRUCTIONAL MATERIALS; *MODELS; POST SECONDARY EDUCATION; *SYSTEMS ANALYSIS; *WATER DISTRIBUTION; WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: (LC 74-33803) (ISBN 0-669-99127-9), FIGURES, TABLES, APPENDICES

ABSTRACT: IN THIS STUDY EXISTING DISTRIBUTION SYSTEMS ARE CONTROLLED WITH NO MODIFICATION TO HARDWARE, SO THAT ADEQUATE CUSTOMER PRESSURE IS MAINTAINED. OPERATING COSTS ARE MINIMIZED WHILE VARIOUS SYSTEM VARIABLES ARE KEPT WITHIN CONSTRAINTS. TO ACHIEVE THIS, THE AUTHORS DEVELOP CONCEPTS OF MODELING AND CONTROL NEW TO WATER DISTRIBUTION.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET, LEXINGTON, MA 02173 ($16.00)

IRIS ACCESSION NUMBER: EW002624

PUBLICATION DATE: 74

TITLE: ENVIRONMENTAL CRISIS AND CORPORATE DEBT POLICY.

PERSONAL AUTHOR: RAY, M. E.

DESCRIPTOR: *ECONOMICS; *ENVIRONMENTAL CONTROL; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *POLICY; *POLLUTION; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 128P. (LC 74-8084) (ISBN 0-669-94557-9), NOTES, TABLES, FIGURES, BIBLIOGRAPHY, APPENDIX, INDEX

ABSTRACT: DEVELOPS THE FINANCIAL IMPLICATIONS RESULTING FROM THE ENVIRONMENTAL CRISIS FROM THE POINT OF VIEW OF THE FIRM. RAY'S MAJOR FINDING IS THAT STOCK PRICES FOR A PORTFOLIO OF FIRMS IN POLLUTING INDUSTRIES DID REACT TO THE REDUCTION IN DEBT CAPACITY RESULTING FROM THE ENVIRONMENTAL CRISIS.

AVAILABILITY: D. C. HEATH CO., 125 SPRING STREET, LEXINGTON, MA 02173 ($12.50)

IRIS ACCESSION NUMBER: EW002660

PUBLICATION DATE: 77

TITLE: FISHER WATER AND WASTEWATER PROCEDURES MANUAL.

PERSONAL AUTHOR: SZANTO, A. G.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *MANUALS; *WATER ANALYSIS; CHEMICALS; EQUIPMENT; FURNITURE; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 120P

ABSTRACT: SIMPLIFIED STEP-BY-STEP ANALYTICAL PROCEDURES FOR OVER 50 OF THE MOST FREQUENTLY USED WATER TESTS. LIST OF EQUIPMENT AND SUPPLIES BY TEST. GENERAL LISTING AND ILLUSTRATIONS OF ANALYTICAL INSTRUMENTATION EQUIPMENT REAGENTS AND LABORATORY FURNITURE FOR PLANNING PURPOSES.

AVAILABILITY: FISHER SCIENTIFIC CO. 711 FORBES AVE. PITTSBURGH, PA 15219 (FREE)

INSTITUTION NAME: FISHER SCIENTIFIC CO.

IRIS ACCESSION NUMBER: EW002714

ERIC ACCESSION NUMBER: ED154983

PUBLICATION DATE: 75

TITLE: WORKBOOK, BASIC MATHEMATICS AND WASTEWATER PROCESSING CALCULATIONS.

INSTITUTION CODE: BBB06822; BBB15621

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: ENVIRONMENT; *ENVIRONMENTAL TECHNICIANS; *INDIVIDUALIZED INSTRUCTION; JOB SKILLS; *MATHEMATICAL APPLICATIONS; *POLLUTION; POST SECONDARY EDUCATION; SANITATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 208P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEOCT78

ABSTRACT: THIS WORKBOOK SERVES AS A SELF-LEARNING GUIDE TO BASIC MATHEMATICS AND TREATMENT PLANT CALCULATIONS AND ALSO AS A REFERENCE AND SOURCE BOOK FOR THE MATHEMATICS OF SEWAGE

TREATMENT AND PROCESSING. IN ADDITION TO BASIC MATHEMATICS, THE WORKBOOK DISCUSSES PROCESSING AND PROCESS CONTROL, LABORATORY CALCULATIONS AND EFFICIENCY CALCULATIONS NECESSARY IN ALL STEPS OF SEWAGE TREATMENT PLANT OPERATIONS. THE APPENDIX INCLUDES TABLES OF ENGLISH AND METRIC MEASUREMENTS, PROCESSING AND DIMENSIONAL FORMULAS, AND A PROBLEM ANSWER KEY. (CS)

INSTITUTION NAME: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION, ALBANY.; ONONDAGO COUNTY DEPT. OF DRAINAGE AND SANITATION, SYRACUSE, N.Y.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW002772

PUBLICATION DATE: 75

TITLE: HANDBOOK OF ENVIRONMENTAL CIVIL ENGINEERING.

PERSONAL AUTHOR: ZILLY, R. G.

DESCRIPTOR: *CIVIL ENGINEERING; *ENVIRONMENT; INSTRUCTIONAL MATERIALS; *MANUALS; POST SECONDARY EDUCATION; *TECHNOLOGY

DESCRIPTIVE NOTE: 1042P. 606 ILLUSTRATIONS

ABSTRACT: GEARED TO THE CIVIL ENGINEER'S NEW ROLE AS A "PUBLIC PROFESSIONAL"—ONE WHO MUST PRACTICE UNDER INCREASED PUBLIC SCRUTINY AS A RESULT OF TODAY'S EMPHASIS ON ENVIRONMENTAL CONTROL. EMPHASIZING NEWER ENVIRONMENTAL AND MANAGERIAL ASPECTS OF THE FIELD, IT ALSO EXPLAINS MANY RECENT CHANGES AND INNOVATIONS IN CIVIL ENGINEERING TECHNOLOGY.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($38.50)

IRIS ACCESSION NUMBER: EW002773

PUBLICATION DATE: 76

TITLE: ECOLOGY OF INLAND WATERS AND ESTUARIES, 2ND ED.

PERSONAL AUTHOR: REID, G. K.; WOOD, R. D.

DESCRIPTOR: *AQUATIC BIOLOGY; *BIOLOGY; BOOKS; *ECOLOGY; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 496P. 188 ILLUSTRATIONS

ABSTRACT: DESCRIBES THE ECOLOGICAL RELATIONSHIPS FOUND IN AQUATIC ENVIRONMENTS AND SHOWS HOW AQUATIC ORGANISMS AND COMMUNITIES CONTEND WITH AND ADAPT TO THE CHANGING DEMANDS OF LIFE IN WATER. EXAMINES THE FACTORS AND PROCESSES THAT OPERATE IN LAKES, STREAMS AND ESTUARIES TO CAUSE CONTINUOUS CHANGES IN THE AQUATIC ECOSYSTEMS.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($15.95)

IRIS ACCESSION NUMBER: EW002774

PUBLICATION DATE: 75

TITLE: DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 4TH ED.

PERSONAL AUTHOR: SAX, N. I.

DESCRIPTOR: *AIR POLLUTION CONTROL; *HEALTH; *INDUSTRIAL WASTES; INSTRUCTIONAL MATERIALS; MANUALS; *POLLUTANTS; POLLUTION; RADIATION; SAFETY; STANDARDS; *WATER POLLUTION CONTROL; *HAZARDOUS MATERIALS

DESCRIPTIVE NOTE: 126P. ILLUSTRATED

ABSTRACT: REFERENCE GUIDE TO SAFE HANDLING AND DISTRIBUTION OF HAZARDOUS MATERIALS. PROVIDES A COMPLETE REPRINTING OF THE ACGIH PUBLICATION OF THRESHOLD LIMIT VALUES, ALONG WITH PROPOSED CHANGES. INFORMATION ON HAZARDS OF MICROWAVE EXPOSURE, AND LASER AND ULTRAVIOLET RADIATION. EXPLAINS STANDARDS AND ENGINEERING PRACTICES RELATING TO CONTROL OF THE AIR ENVIRONMENT. DISCUSSES EFFECTS AND CONTROL OF RADIOLOGICAL POLLUTION. DESCRIBED ALSO ARE POTENTIAL DANGERS IN MISUSE OF SOLID WASTES AND THEIR TREATMENT.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($44.50)

IRIS ACCESSION NUMBER: EW002775

PUBLICATION DATE: 75

TITLE: SURVIVAL 2001.

PERSONAL AUTHOR: VOEGELI, H. E.; TARRANT, J. J.

DESCRIPTOR: BOOKS; *DESIGN; *ENERGY; *ENERGY CONSERVATION; *INSTRUCTIONAL MATERIALS; INSULATION; POST SECONDARY EDUCATION; *TECHNOLOGY; TRANSPORTATION

DESCRIPTIVE NOTE: 144P. ILLUSTRATED; PAPERBACK

ABSTRACT: SHOWS HOW ALTERNATIVE ENERGY SOURCES CAN BE USED TO ENHANCE CONSERVATION, SANITATION AND HEALTH. EXPLAINS, WITH DETAILED ENGINEERING DRAWINGS, DEVICES FOR TAPPING ADVANCED METHODS OF TRANSPORTATION; WATER POWER FROM RIVERS, OCEAN WAVES AND THE TIDES; SOLAR HEAT, AND POWER AND HEAT STORAGE. INCLUDES INFORMATION ON HOUSING INSULATION, ENERGY-WISE BUILDING CONSTRUCTION, AND RECLAMATION OF HOUSEHOLD AND KITCHEN WASTE. DESCRIBES INVENTIONS SUCH AS A CONICAL SOLAR HEAT COLLECTOR, A WIND TRAP, AN AIRFOIL RAILROAD CAR, AND A HEAT PUMP.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 450 WEST 33RD STREET, NEW YORK, NY 10001 ($6.95)

IRIS ACCESSION NUMBER: EW002776

PUBLICATION DATE: 77

TITLE: WATER PURIFICATION CONTROL.

PERSONAL AUTHOR: HOPKINS

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 344P.

ABSTRACT: INTRODUCTION TO WATER TREATMENT PROCESSES.

AVAILABILITY: ROBERT E. KRIEGER PUBLISHING CO., PO BOX 542, HUNTINGTON, NY 11743 ($14.50)

IRIS ACCESSION NUMBER: EW002777

PUBLICATION DATE: 77

TITLE: RURAL WATER SUPPLY AND SANITATION.

PERSONAL AUTHOR: WRIGHT, F. B.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RURAL ENVIRONMENT; *SANITATION; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 347P.

ABSTRACT: INTRODUCTION TO RURAL WATER SUPPLY PROBLEMS.

AVAILABILITY: ROBERT E. KRIEGER PUBLISHING CO., PO BOX 542 HUNTINGTON, NY 11743 ($16.50)

IRIS ACCESSION NUMBER: EW002778

PUBLICATION DATE: 72

TITLE: ENVIRONMENTAL MEASUREMENT AND INTERPRETATION.

PERSONAL AUTHOR: PLATT, R. B.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DATA ANALYSIS; ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MEASUREMENT; *MONITORING; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 235P.

ABSTRACT: COMPREHENSIVE TEXT AND REFERENCE MANUAL WRITTEN FOR TEACHERS, STUDENTS, RESEARCHERS AND ENGINEERS CONCERNED WITH THE SELECTION, MEASUREMENT AND INTERPRETATION OF ENVIRONMENTAL CONDITIONS. OF DIRECT USE TO ECOLOGISTS, BOTANISTS, ZOOLOGISTS AND TO ALL OTHERS WORKING WITH THE ENVIRONMENT INCLUDING THOSE INVOLVED IN PHYSIOLOGY, FORESTRY, AND AGRICULTURE OR IN PUBLIC HEALTH, RADIOLOGICAL SAFETY, AND INDUSTRIAL HYGIENE.

AVAILABILITY: ROBERT E. KRIEGER PUBLISHING CO., PO BOX 542, HUNTINGTON, NY 11743 ($12.50)

IRIS ACCESSION NUMBER: EW002780

PUBLICATION DATE: 76

TITLE: POLLUTED GROUNDWATER.

PERSONAL AUTHOR: TODD, D. K.; MCNULTY, D. E.

DESCRIPTOR: AGRICULTURE; ENVIRONMENT; *GROUNDWATER; INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; POLLUTANTS; *POLLUTION; POST SECONDARY EDUCATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 178P.

ABSTRACT: REVIEWS THE SIGNIFICANT LITERATURE ON MANCAUSED GROUNDWATER POLLUTION, INCLUDING CAUSES, OCCURRENCES, PROCEDURES FOR CONTROL, AND METHODS FOR MONITORING. SOME 30 SPECIFIC TOPICS ARE COVERED WITHIN THE CHAPTER HEADINGS OF URBAN POLLUTION, INDUSTRIAL POLLUTION, AGRICULTURAL POLLUTION, POLLUTION FROM WELLS, SALT WATER AND SURFACE WATER, POLLUTANTS AND EFFECTS, AND EVALUATING POLLUTION.

AVAILABILITY: WATER INFORMATION CENTER, INC., DEPT 25, 14 VANDERVENTER AVENUE, HUNTINGTON, NY 11743 ($16.00)

IRIS ACCESSION NUMBER: EW002785

TITLE: TALK IT UP - COMMUNICATING SAFETY SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; COMMUNICATIONS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 16MM, 10 MIN., COLOR; THREE FILM SET "COMMUNICATING SAFETY" SERIES NO. 147.20-9; PRICE: $540.00 PER SET. SEE EW002786 AND EW002787

ABSTRACT: TEACHES SUPERVISORY PERSONNEL HOW TO BRIDGE THE GAP OF POOR COMMUNICATION AND REALLY INSPIRE IMPROVED SAFETY PERFORMANCE FROM THEIR SUBORDINATES. EXPLORES METHODS OF COMMUNICATING SAFETY COMMITMENT TO EMPLOYEES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002786

TITLE: PLAN YOUR TALKS - COMMUNICATING SAFETY SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; COMMUNICATIONS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 16MM, 10 MIN., COLOR; THREE FILM SET "COMMUNICATING SAFETY" SERIES NO. 147.20-9; PRICE: $540.00 PER SET; SEE EW002785 AND EW002787

ABSTRACT: TEACHES SUPERVISORY PERSONNEL HOW TO BRIDGE THE GAP OF POOR COMMUNICATION AND REALLY INSPIRE IMPORVED SAFETY PERFORMANCE FROM THEIR SUBORDINATES. DISCUSSES DEVICES FOR TURNING ANY ENCOUNTER INTO AN OPPORTUNITY FOR A SAFETY TALK.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002787

TITLE: TOUGH ONES TAKE LONGER - COMMUNICATING SAFETY SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; *FILMS; *INDUSTRIAL SAFETY; *MANAGEMENT; *SAFETY; AUDIOVISUAL AIDS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16MM, 10 MIN. COLOR; THREE FILM SERIES "COMMUNICATING SAFETY" SERIES NO. 147.20-9; PRICE: $540.00 PER SET; SEE EW002785 AND EW002786

ABSTRACT: HELPS SUPERVISORS RECOGNIZE AND COPE WITH PROBLEMS WITH PROBLEM PEOPLE SUCH AS THE WORRIER, THE CYNIC, THE PUT-OFF AND THE PREOCCUPIED WORKER.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002788

TITLE: PEOPLE ARE ALL ALIKE - HUMAN FACTORS IN SAFETY SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; AUDIOVISUAL AIDS; EMOTIONS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 142.16-9) 16MM, 10 MIN., COLOR; FOUR-FILM SET (EW002788-EW002791) "HUMAN FACTORS IN SAFETY" SERIES

ABSTRACT: DEALS WITH THE HUMAN ELEMENT IN ACCIDENT PREVENTION. HOW THE BEHAVIOR OF PEOPLE WITH OTHER PEOPLE CAN BE FACTORS IN CAUSING OR AVOIDING ACCIDENTS. DISCUSSES THE EMOTIONAL NEEDS, RESPONSES, CHARACTERISTICS THAT EVERYONE HAS IN COMMON.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002789

TITLE: EVERYBODY'S DIFFERENT - HUMAN FACTORS IN SAFETY SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 142.17-9) 16MM, 10 MIN., COLOR; FOUR-FILM SET (EW002788-EW002791) "HUMAN FACTORS IN SAFETY" SERIES

ABSTRACT: DEALS WITH THE HUMAN ELEMENT IN ACCIDENT PREVENTION. HOW THE BEHAVIOR OF PEOPLE WITH OTHER PEOPLE CAN BE FACTORS IN CAUSING OR AVOIDING ACCIDENTS. HOW PEOPLE DIFFER, PHYSICALLY AND EMOTIONALLY; AND HOW THESE DIFFERENCES MAY AFFECT SAFETY PERFORMANCES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002790

TITLE: TEACHING SAFETY ON THE JOB - HUMAN FACTORS IN SAFETY SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 142.18-9) 16MM, 10 MIN., COLOR; FOUR-FILM SET (EW002788-EW002791) "HUMAN FACTORS IN SAFETY" SERIES

ABSTRACT: DEALS WITH THE HUMAN ELEMENT IN ACCIDENT PREVENTION. HOW THE BEHAVIOR OF PEOPLE WITH OTHER PEOPLE CAN BE FACTORS IN CAUSING OR AVOIDING ACCIDENTS. HOW TO BUILD SAFETY INTO JOB TRAINING BY MAKING THE INSTRUCTION CLEAR AND BY PROPER FOLLOW-UP.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002791

TITLE: TEAMWORK FOR SAFETY - HUMAN FACTORS IN SAFETY SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; *FILMS; *INDUSTRIAL SAFETY; *MANAGEMENT; *SAFETY; AUDIOVISUAL AIDS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (NO. 142.19-9) 16MM, 10 MIN. COLOR; FOUR-FILM SET (EW002788-EW002791) "HUMAN FACTORS IN SAFETY" SERIES

ABSTRACT: DEALS WITH THE HUMAN ELEMENT IN ACCIDENT PREVENTION. HOW THE BEHAVIOR OF PEOPLE WITH OTHER PEOPLE CAN BE FACTORS IN CAUSING OR AVOIDING ACCIDENTS. SHOWS HOW TO MAKE A GROUP OF PEOPLE FEEL LIKE PART OF A TEAM AND FUNCTION LIKE ONE.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002796

TITLE: RUN THE TEAM - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *FILMS; *INDUSTRIAL SAFETY; *MANAGEMENT; *SAFETY; *SUPERVISION; AUDIOVISUAL AIDS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (NO. 148.11-9) 16MM, COLOR, 10 MIN. EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT" SERIES

ABSTRACT: BASIC FUNCTION OF THE FOREMAN IN SAFETY. PROVIDES THE FOREMAN AND SUPERVISORS WITH TRAINING IN BASIC AREAS OF ACCIDENT PREVENTION. THE FILM FOLLOWS A SAFETY DIRECTOR AND SUPERVISOR WHO ARE PLANNING A COURSE IN THE FUNDAMENTALS OF ACCIDENT PREVENTION. MOCK-UPS AND DEMONSTRATIONS ARE USED TO ILLUSTRATE MAJOR POINTS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002797

TITLE: PLAN FOR PREVENTION - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ACCIDENT REPORTING; AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 148.12-9) 16MM, 10 MIN., COLOR; EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT SERIES

ABSTRACT: TECHNIQUES OF GOOD ACCIDENT REPORTING.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002798

TITLE: LET THEM KNOW - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; *INSTRUCTION; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY; SUPERVISION

DESCRIPTIVE NOTE: (NO. 148.13-9) 16MM, 10 MIN., COLOR; EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT" SERIES

ABSTRACT: ELEMENTS OF EFFECTIVE JOB SAFETY INSTRUCTION. PROVIDES FOREMEN AND SUPERVISORS WITH TRAINING IN BASIC AREAS OF ACCIDENT PREVENTION.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002799

TITLE: MIND OVER MATTER - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; MATERIALS HANDLING; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 148.14-9) 16MM, 10 MIN., COLOR; EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT" SERIES

ABSTRACT: HOW TO PREVENT MATERIALS HANDLING ACCIDENTS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002800

TITLE: SAFETY IS IN ORDER - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; MAINTENANCE; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 148.15-9) 16MM, 10 MIN., COLOR; EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT" SERIES

ABSTRACT: HOW HOUSEKEEPING AND MAINTENANCE RELATE TO SAFETY AND EFFICIENCY.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002801

TITLE: BARE MINIMUM - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *EQUIPMENT; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; PROTECTIVE EQUIPMENT; *SAFETY

DESCRIPTIVE NOTE: (NO. 148.16-9) 16MM, 10 MIN., COLOR; EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT" SERIES

ABSTRACT: VALUE OF PERSONAL PROTECTIVE EQUIPMENT

AVAILABILITY: NATIONAL SAFETY COUNCIL. 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002802

TITLE: GUARD DUTY - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *EQUIPMENT; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; MACHINE GUARDING; *MANAGEMENT; POST SECONDARY EDUCATION; PROTECTIVE EQUIPMENT; *SAFETY

DESCRIPTIVE NOTE: (NO. 148.17-9) 16MM, 10 MIN., COLOR; EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT" SERIES

ABSTRACT: FUNDAMENTALS OF MACHINE GUARDING.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002803

TITLE: SELL SAFETY - SAFETY MANAGEMENT SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *COMMUNICATIONS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 148.18-9) 16MM, 10 MIN., COLOR; EIGHT FILM SET (EW002796-EW002803) "SAFETY MANAGEMENT" SERIES

ABSTRACT: SAFETY THROUGH GOOD COMMUNICATION.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($155.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002804

TITLE: PUTTING IT ALL TOGETHER.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; INDUSTRY; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION; TEACHING TECHNIQUES

DESCRIPTIVE NOTE: (NO. 171.81-9) 16MM, 10 MIN., COLOR

ABSTRACT: SHOWS SUPERVISORS HOW TO USE THE JIT-JSA METHOD TO INSTRUCT WORKERS. EMPHASIZES THE FACT THAT THIS TECHNIQUE MAY BE APPLIED TO ANY TASK-LEARNING SITUATION.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002805

TITLE: YOU AND WHAT YOU DO - SAFETY AWARENESS SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 147.26-9) 16MM, 10 MIN., COLOR; THREE FILM SET (EW002805-EW002807) "SAFETY AWARENESS" SERIES

ABSTRACT: STUDIES THE DANGER INVOLVED WHEN PEOPLE AREN'T COMPLETELY TRAINED IN A PARTICULAR JOB...OR DON'T UNDERSTAND SPECIFIC INSTRUCTIONS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($195.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002806

TITLE: YOUR BODY IS ONLY HUMAN - SAFETY AWARENESS SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; EQUIPMENT; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; MATERIALS HANDLING; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 147.27-9) 16MM, 10 MIN., COLOR; THREE FILM SET (EW002805-EW002807) "SAFETY AWARENESS" SERIES

ABSTRACT: SPOTLIGHTS THE RELATIONSHIP BETWEEN MIND AND BODY IN ESTABLISHING SAFE WORK PATTERNS. MAN'S PHYSICAL LIMITATIONS ARE EXPLORED, AND THE PROPER USE OF TOOLS AND EQUIPMENT TO AUGMENT STRENGTH AND DEXTERITY ARE DESCRIBED.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($195.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002807

TITLE: ACCIDENTS MADE EASY - SAFETY AWARENESS SERIES.

DESCRIPTOR: *ACCIDENT PREVENTION; ATTITUDES; *AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 147.28-9) 16MM, 13 MIN., COLOR; THREE FILM SET (EW002805-EW002807) "SAFETY AWARENESS" SERIES

ABSTRACT: VARIOUS EMPLOYEE ATTITUDES TOWARD SAFETY ARE UNCOVERED AS A RESULT OF A SERIES OF RECENT ACCIDENTS THAT COULD AND SHOULD HAVE BEEN AVOIDED. DIRECTED TO EMPLOYEES CONCENTRATING ON THEIR ATTITUDES ABOUT SAFETY IN RELATION TO THEIR JOBS, THEIR EMPLOYERS AND THEMSELVES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($250.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002808

TITLE: DOWN AND OUT.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 171.20-9) 16MM, 10 MIN., COLOR

ABSTRACT: DEMONSTRATES VARIOUS TYPES OF FALLS AND HOW TO AVOID THEM.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002811

TITLE: HOUSEKEEPING MEANS SAFEKEEPING.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; INSTRUCTIONAL FILMS; *MAINTENANCE; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 171.36-9) 16MM, 10 MIN., COLOR

ABSTRACT: FORCEFUL DRAMATIZATION OF THE PAINFUL CONSEQUENCES OF POOR INDUSTRIAL HOUSEKEEPING.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($195.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002812

TITLE: KEEP IT CLEAN FOR SAFETYS SAKE.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *MAINTENANCE; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 171.10-9) 16MM, 10 MIN., COLOR

ABSTRACT: STOP-ACTION ANIMATION TECHNIQUE PROVIDES STEP-BY-STEP VISUAL PRESENTATION OF THE NEED FOR GOOD PLANT HOUSEKEEPING.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($115.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002813

TITLE: A NEW WAY TO LIFT.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *LIFTING; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 171.26-9) 16MM, 10 MIN., COLOR

ABSTRACT: ILLUSTRATES A UNIQUE WAY TO LIFT LOADS OF ALL SIZES AND SHAPES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002814

TITLE: ON EVERY HAND.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; *MATERIALS HANDLING; *PROTECTIVE CLOTHING; *PROTECTIVE EQUIPMENT; *SAFETY; EQUIPMENT; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (NO. 171.25-9) 16MM, 10 MIN. COLOR

ABSTRACT: DEMONSTRATES PRECAUTIONS AND PROTECTIVE EQUIPMENT TO HELP PREVENT HAND INJURIES FROM CHEMICALS, IMPROPER USE OF TOOLS, MACHINES, ETC.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002815

TITLE: SAFETY AFOOT.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; EQUIPMENT; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION; *PROTECTIVE CLOTHING; *PROTECTIVE EQUIPMENT; *SAFETY; *SAFETY SHOES

DESCRIPTIVE NOTE: (NO. 171.12-9) 16MM, 10 MIN., COLOR

ABSTRACT: CLEVER CLAY-ANIMATION "FOOT PEOPLE" DEPICT THE DANGERS OF NOT WEARING SAFETY SHOES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($195.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002816

TITLE: SAFETY ATTITUDES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; *AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 171.11-9) 16MM, 10 MIN., COLOR

ABSTRACT: GRAPHICALLY ILLUSTRATES HOW ATTITUDES CAN CAUSE OR PREVENT ACCIDENTS.

VAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN VENUE, CHICAGO, IL 60611 ($115.00)

NSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002817

TITLE: STOP A FIRE BEFORE IT STARTS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *FIRES; *LABORATORY SAFETY; *SAFETY; INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (NO. 171.17-9) 16MM, 10 MIN. COLOR

ABSTRACT: FILMED PARTLY UNDER LABORATORY CONDITIONS, PARTLY ON LOCATION. SHOWS WHY FIRES START... HOW TO PREVENT THEM.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($195.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002818

TITLE: TECHNIQUES FOR LIFTING.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; *LIFTING; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 171.14-9) 16MM, 10 MIN., COLOR

ABSTRACT: CLAY-ANIMATION TECHNIQUE USES ABSTRACT CHARACTERS TO ILLUSTRATE THE PROPER WAY TO LIFT LOADS OF VARIOUS SIZES AND SHAPES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($195.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002819

TITLE: WE'LL SEE TOMORROW.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; EQUIPMENT; EYES; *FILMS; *INDUSTRIAL SAFETY; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION; *SAFETY; *VISION

DESCRIPTIVE NOTE: (NO. 171.65-9) 16MM, 10 MIN., COLOR

ABSTRACT: SAFETY-CONSCIOUS EMPLOYEE FORGETS ABOUT EYE PROTECTION, JUST ONCE. INTERESTING AND DRAMATIC...INSPIRES CONTINUED USE OF PROTECTIVE EQUIPMENT.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($185.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002822

TITLE: ACCIDENT PREVENTION MANUAL FOR INDUSTRIAL OPERATIONS, 7TH ED.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; *MANUALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 1536P. (NO. 121.38-9) PHOTOS, ILLUSTRATIONS, CHARTS, GRAPHS AND TABLES

ABSTRACT: UP-TO-DATE INDUSTRIAL SAFETY SOURCEBOOK DESIGNED TO PROVIDE YOU WITH ALL THE ESSENTIAL INFORMATION NECESSARY TO CARRY OUT EFFICIENT ACCIDENT PREVENTION.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($40.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002823

TITLE: ACCIDENT FACTS.

DESCRIPTOR: *ACCIDENT PREVENTION; *DATA; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *STATISTICS; TABLES (STATISTICAL)

DESCRIPTIVE NOTE: 96P. (NO. 021.54-9), GRAPHS, CHARTS, TABLES, SOFT COVERS

ABSTRACT: CONTAINS ACCIDENT STATISTICS OF ALL TYPES. DATA USEFUL FOR MEETINGS, REPORTS, RESEARCH PROJECTS, ETC.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($6.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002826

TITLE: SUPERVISORS GUIDE TO HUMAN RELATIONS.

PERSONAL AUTHOR: HANNAFORD, E. S.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; COMMUNICATIONS; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; MANAGEMENT; POST SECONDARY EDUCATION; *SAFETY; *SUPERVISION

DESCRIPTIVE NOTE: 352P. (NO. 151.09-9)

ABSTRACT: DEALS WITH THE HUMAN ELEMENTS OF SAFETY SUPERVISION AND COMMUNICATIONS. PROVIDES PRACTICAL INFORMATION FOR SUPERVISORS AND MIDDLE MANAGEMENT PERSONNEL. CONTAINS ACTUAL CASE HISTORIES.:

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($10.20)

IRIS ACCESSION NUMBER: EW002827

TITLE: SUPERVISORS SAFETY MANUAL.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; *MANUALS; POST SECONDARY EDUCATION; *SAFETY; *SUPERVISION

DESCRIPTIVE NOTE: 352P. (NO. 151.01-9)

ABSTRACT: SHOWS SUPERVISORS HOW SAFETY RELATES TO EMPLOYEE SATISFACTION, MORALE, AND HEALTH. ALSO COVERS JOB INSTRUCTION, INDUSTRIAL HOUSEKEEPING, AND LOSS CONTROL.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($15.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002830

TITLE: HOW TO PREVENT FALLS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.17-9) 30 (2X2) SLIDES, COLOR; SCRIPT

ABSTRACT: TEACHES HOW TO SPOT HAZARDS THAT CAUSE FALLS AND HOW TO CORRECT THESE HAZARDS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002836

TITLE: PORTABLE LADDERS.

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; *LADDERS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; *SAFETY; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.05-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: POINTS OUT MANY COMMON HAZARDS OF USING LADDERS AND TELLS HOW TO HANDLE THEM SAFELY.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002837

TITLE: TIPS FOR NEW EMPLOYEES.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.10-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: OUTLINES BASIC SAFETY RULES OF INTEREST TO ALL NEW EMPLOYEES, NO MATTER WHAT THEIR NEW JOBS ARE.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002838

TITLE: WORK AREA PROTECTION.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 129.19-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: OUTLINES BASIC SAFETY PROTECTION FOR ALL EMPLOYEES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICIIGAN AVENUE, CHICAGO, IL 60611 ($19.20)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002839

TITLE: YOUR FEET ARE YOUR FORTUNE.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PROTECTIVE CLOTHING; *SAFETY; *SAFETY SHOES; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.19-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: TEACHES THE NEED FOR FOOT CARE AND PROTECTION AND DEMONSTRATES THE BENEFITS OF SAFETY SHOES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002840

TITLE: GUARD YOUR HANDS.

DESCRIPTOR: *ACCIDENT PREVENTION; *HANDS; *INDUSTRIAL SAFETY; *PROTECTIVE CLOTHING; *SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.16-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: TELLS WHY IT IS SO IMPORTANT TO PROTECT HANDS AND EXPLAINS HOW TO AVOID HAND INJURIES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002841

TITLE: GUARD YOUR SIGHT.

DESCRIPTOR: *ACCIDENT PREVENTION; *EYES; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; *VISION; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.08-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: EMPHASIZES THE NEED FOR EYE PROTECTION AND DEFEATS THE TYPICAL EXCUSES GIVEN FOR NOT WEARING SAFETY GLASSES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002842

TITLE: HAND TOOLS.

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; *HAND TOOLS; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.04-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: REVIEWS PROPER USE, CARE, AND MAINTENANCE OF HAND TOOLS; GIVES RULES FOR USAGE OF MOST COMMON TOOLS (WRENCHES, HAMMERS, CHISELS, OTHERS).

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002845

TITLE: MANUAL LIFTING AND HANDLING.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; *LIFTING; *SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.13-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: EXPLAINS HOW TO LIFT OBJECTS WITHOUT INJURING THE BACK AND HOW TO HANDLE OBJECTS OF VARYING SIZES AND SHAPES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002847

TITLE: SAFETY ATTITUDES.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.01-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: DESCRIBES THE CAUSES AND EFFECTS OF UNSAFE ATTITUDES AND TELLS HOW TO CHANGE THEM.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($46.80)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002848

TITLE: CRANE CONTACTS WITH OVERHEAD POWER LINES.

DESCRIPTOR: *ACCIDENT PREVENTION; *CRANES; *ELECTRICITY; EQUIPMENT; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; POWER LINES; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 129.12-9) 25 SLIDES, COLOR, SCRIPT

ABSTRACT: POINTS OUT SAFETY HAZARDS FROM WORKING NEAR OVERHEAD POWER LINES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($14.00)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002849

TITLE: EXCAVATING NEAR UNDERGROUND UTILITIES.

DESCRIPTOR: *ACCIDENT PREVENTION; *EXCAVATION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; *UTILITIES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 129.18-9) 31 SLIDES, COLOR, SCRIPT

ABSTRACT: DISCUSSES THE HAZARDS OF WORKING NEAR UNDERGROUND UTILITY LINES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($19.80)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002850

TITLE: PREVENTING OFFICE ACCIDENTS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; *OFFICE SAFETY; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.07-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: ILLUSTRATES SOME COMMON TYPES OF OFFICE ACCIDENTS AND TELLS HOW TO AVOID EACH.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002851

TITLE: MESSAGE IN THE BOTTLE.

DESCRIPTOR: *ACCIDENT PREVENTION; *ALCOHOLIC BEVERAGES; ALCOLOLISM; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 396.01-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: EXPOSES THE AFFECT OF ALCOHOL ON ONE'S ABILITY TO PERFORM SUCH TASKS AS DRIVING, OPERATING MACHINERY, SWIMMING, CLIMBING A LADDER.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($39.60)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002853

TITLE: ATTITUDES AND EMOTIONS.

DESCRIPTOR: *ACCIDENT PREVENTION; *ATTITUDES; EMOTIONS; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 279.95-9) 30 (2X2) SLIDES, COLOR, SCRIPT

ABSTRACT: DISCUSSES THESE IN RELATIONSHIP TO ACCIDENTS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($46.80)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002854

TITLE: AIR TOOL SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; *AIR TOOLS; *EQUIPMENT; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.32-9) 30 (2X2) SLIDES, COLOR, CASSETTE

ABSTRACT: PRECAUTIONS FOR A VARIETY OF AIR TOOL USERS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($46.80)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002855

TITLE: HEAD PROTECTION.

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT; HEAD PROTECTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PROTECTIVE CLOTHING; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.73-9) 30 SLIDES, COLOR, CASSETTE

ABSTRACT: IDEAL FOR CONSTRUCTION WORKERS AND OTHERS WHO WEAR HARD HATS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($46.80)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002856

TITLE: SAFE WORK DRESS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PROTECTIVE CLOTHING; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.74-9) 30 SLIDES, COLOR, CASSETTE

ABSTRACT: ILLUSTRATES IMPORTANCE OF PERSONAL PROTECTIVE CLOTHING.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAG , IL 60611 ($46.80)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002857

TITLE: OH MY ACHING BACK.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; *MANUAL LABOR; POST SECONDARY EDUCATION; *SAFETY; SLIDES; VISUAL AIDS

DESCRIPTIVE NOTE: (NO. 176.75-9) 30 SLIDES, COLOR, CASSETTE

ABSTRACT: EXPLAINS SOME OF THE COMMON CAUSES OF BACK PAIN AND SPRAINS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($46.80)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002859

TITLE: HAND TRAPS.

DESCRIPTOR: *ACCIDENT PREVENTION; *HANDS; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 8P. (NO. 195.13-9) MINIMUM ORDER OF 50 LEAFLETS

ABSTRACT: DESCRIBES THE FIVE BASIC MECHANICAL ACTIONS THAT CAN INJURE HANDS; ROTATING, IN-RUNNING NIP, SHEARING, SMASHING, PUNCTURING.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.105)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002861

TITLE: JOB TRAINING JOGGER.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; *INSTRUCTION; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *TEACHING TECHNIQUES

DESCRIPTIVE NOTE: 20P. (NO. 193.21-9) MINIMUM ORDER OF 10

ABSTRACT: A SAFETY INSTRUCTOR'S GUIDE COMBINING THE TESTED METHODS OF JOB SAFETY ANALYSIS AND JOB INSTRUCTION TRAINING TO PRODUCE SOUND, LOGICAL PROCEDURES FOR TEACHING SAFETY.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($1.20)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002862

TITLE: MOVING STORY.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; *MATERIALS HANDLING; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 8P. (NO. 195.61-9) MINIMUM ORDER OF 50

ABSTRACT: TEACHES SAFE MATERIALS HANDLING.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.095)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002863

TITLE: SPOTLIGHT ON FALLS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; MANAGEMENT; *OBSERVATION; POST SECONDARY EDUCATION; *SAFETY; *SUPERVISION

DESCRIPTIVE NOTE: 8P. (NO. 192.16-9) MINIMUM ORDER OF 50

ABSTRACT: GUIDE TO HELP SUPERVISORS DEVELOP AN EFFECTIVE SAFETY OBSERVATION PROGRAM TO FIT ANY OPERATION.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.11)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002866

TITLE: VISIT TO OFFICE FALLS.

DESCRIPTOR: *ACCIDENT PREVENTION; *INSTRUCTIONAL MATERIALS; *OFFICE SAFETY; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (NO. 195.56-9) MINIMUM ORDER OF 50

ABSTRACT: FACTS AND SUGGESTIONS FOR AVOIDING COMMON OFFICE FALLS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.079)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002867

TITLE: WELCOME TO THE JOB.

DESCRIPTOR: ACCIDENT PREVENTION; *CONSTRUCTION INDUSTRY; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *SAFETY RULES

DESCRIPTIVE NOTE: 4P. (NO. 195.39-9) MINIMUM ORDER OF 10

ABSTRACT: SAFETY RULES FOR NEW CONSTRUCTION WORKERS.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.131)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002868

TITLE: YOU AND THE SAFETY COMMITTEE.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *SAFETY COMMITTEE

DESCRIPTIVE NOTE: 36P. (NO. 159.03-9)

ABSTRACT: OUTLINES THE DUTIES OF MEMBERS OF SAFETY COMMITTEES.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($1.32)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002869

TITLE: YOU'RE IN THE ACT.

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *SAFETY RULES

DESCRIPTIVE NOTE: 36P. (NO. 192.15-9)

ABSTRACT: ILLUSTRATED BOOKLET FEATURES HUNDREDS OF SENSIBLE SAFETY RULES FOR NEARLY EVERY IMPORTANT PLANT ACTIVITY.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.31)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002870

TITLE: POCKET GUIDE TO EMERGENCY ACTION.

DESCRIPTOR: *ACCIDENT PREVENTION; *FIRST AID; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 28P. (NO. 192.22-9) MINIMUM ORDER OF 10

ABSTRACT: FIRST-AID INFORMATION FOR TREATING FRACTURES, SHOCK, SEVERE BLEEDING, MANY MORE.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.28)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002871

TITLE: POCKET GUIDE TO FIRST AID.

DESCRIPTOR: *ACCIDENT PREVENTION; *FIRST AID; *INDUSTRIAL SAFETY; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: 28P. (NO. 195.06-9) MINIMUM ORDER OF 50

ABSTRACT: FIRST-AID TREATMENT FOR MANY TYPES OF INJURIES. INCLUDES THE NEW "HEIMLICH MANEUVER" FOR CHOKING VICTIMS, AND A TEAR-OUT MEDICAL I.D. CARD.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVENUE, CHICAGO, IL 60611 ($0.182)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002873

PUBLICATION DATE: 75

TITLE: CHOICE STAKES.

DESCRIPTOR: AUDIOVISUAL AIDS; *DECISION MAKING; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCATION; *VALUES

DESCRIPTIVE NOTE: 10 MIN., COLOR, 16MM FLIM

ABSTRACT: DEALS WITH ONE PROBLEM, USING ESSENTIALLY TWO MAIN CHARACTERS. THE MESSAGE IS THIS: MAN'S DESIRE FOR A FULLER, RICHER MATERIAL LIFE INEVITABLE AFFECTS THE ENVIRONMENT AND MAN MUST LEARN TO RECOGNIZE WHAT THE CHOICES ARE AND WHAT HIS DECISIONS WILL COST HIM. PRODUCED WITHOUT DIALOGUE OR MARRATION BUT UTILIZES MUSIC AND SOUND EFFECTS TRACK.

AVAILABILITY: MODERN TALKING PICTURE SERVICE, INC., 2323 NEW HYDE PARK ROAD, NEW HYDE PARK, NY 11040 (RENT FREE)

IRIS ACCESSION NUMBER: EW002880

PUBLICATION DATE: 76

TITLE: ZINSSER MICROBIOLOGY. 16TH EDITION.

PERSONAL AUTHOR: JOKLIK, W. K.; WILLETT, H. P.

DESCRIPTOR: *BIOCHEMISTRY; *BIOLOGY; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *POST SECONDARY EDUCATION; *TEXTBOOKS

DESCRIPTIVE NOTE: 1230P.

ABSTRACT: IN ADDITION TO A DESCRIPTION OF THE PATHOGENIC INFECTIOUS AGENTS AND THE DISEASES THEY CAUSE, THERE IS PRESENTED ALSO, A DISCUSSION OF THE BIOCHEMISTRY, MOLECULAR BIOLOGY, AND GENETICS OF MICROORGANISMS.

AVAILABILITY: APPLETON-CENTURY-CROFTS, MEDICAL/NURSING PUB., DEPT. SK, 292 MADISSON AVE., NEW YORK, NY 10017 ($32.50)

IRIS ACCESSION NUMBER: EW002884

PUBLICATION DATE: 76

TITLE: SYSTEMS APPROACH TO WATER MANAGEMENT.

PERSONAL AUTHOR: BISWAS, A. K.

DESCRIPTOR: *GROUNDWATER; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *MODELS; POST SECONDARY EDUCATION; *RESOURCE MANAGEMENT; *SYSTEMS ANALYSIS; *WATER RESOURCES

DESCRIPTIVE NOTE: 448P. (NO. 005480-0)

ABSTRACT: COVERING ALL ASPECTS OF WATER MANAGEMENT WITHIN AN OVERALL SYSTEMS CONTEXT. EMPHASIZES APPLICATIONS IN A REAL WORLD RATHER THAN MANIPULATION OF COMPLEX MATHEMATICAL THEORIES, PRESENTING THEORETICAL BACKGROUND ONLY AS NECESSARY. BOTH SURFACE WATER AND GROUNDWATER SYSTEMS ARE COVERED IN TERMS OF QUANTITY, QUALITY, DISTRIBUTION, AND USE.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($24.50)

IRIS ACCESSION NUMBER: EW002887

PUBLICATION DATE: 72

TITLE: CONCEPTS AND MODELS IN GROUNDWATER.

PERSONAL AUTHOR: DOMENICO, P. A.

DESCRIPTOR: *GROUNDWATER; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *MODELS; POST SECONDARY EDUCATION; *WATER RESOURCES

DESCRIPTIVE NOTE: 405P. (NO. 017535-7)

ABSTRACT: INCLUDES: GROUNDWATER BASIN AS A LUMPED PARAMETER SYSTEM; CONSERVATION PRINCIPLES AND APPLICATIONS; GROUNDWATER BASIN AS A DISTRIBUTED-PARAMETER SYSTEM.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($24.00)

IRIS ACCESSION NUMBER: EW002888

PUBLICATION DATE: 70

TITLE: DYNAMIC HYDROLOGY.

PERSONAL AUTHOR: EAGLESON, P. S.

DESCRIPTOR: GROUNDWATER; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; OCEANOLOGY; POST SECONDARY EDUCATION; SURFACE RUNOFF; WATER CHARACTERISTICS; *WATER RESOURCES

DESCRIPTIVE NOTE: 448P. (NO. 018596-4)

ABSTRACT: INCLUDES: TRANSPORT PROCESS IN THE ATMOSPHERE AND OCEANS; PHYSICAL COMPOSITION OF THE OCEAN AND LAKES; GENERAL CIRCULATION OF OCEANS; INFILTRATION AND GROUNDWATER FLOW; SURFACE RUNOFF AND STREAMFLOW.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($24.00)

IRIS ACCESSION NUMBER: EW002889

PUBLICATION DATE: 66

TITLE: INDUSTRIAL WATER POLLUTION CONTROL.

PERSONAL AUTHOR: ECKENFELDER, W. W.

DESCRIPTOR: AERATION; DEWATERING; FILTRATION; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; ION EXCHANGE; *OPERATIONS; POLLUTION; POST SECONDARY EDUCATION; SEDIMENTATION; SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 311P. (NO. 018900-5)

ABSTRACT: CONTAINS: SOURCE AND CHARACTERISTICS OF INDUSTRIAL WASTES; SEDIMENTATION; FLOTATION; AERATION AND MASS TRANSFER; COAGULATION; ADSORPTION; ION EXCHANGE; PRINCIPLES OF BIOLOGICAL OXIDATION; ACTIVATED SLUDGE; TRICKLING FILTRATION; LAGOONS; ANAEROBIC DECOMPOSITION; THICHENING; SOLIDS DEWATERING AND DISPOSAL.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW002890

PUBLICATION DATE: 77

TITLE: HIERARCHICAL ANALYSES OF WATER RESOURCES SYSTEMS: MODELING AND OPTIMIZATION OF LARGE-SCALE SYSTEMS.

PERSONAL AUTHOR: HALMES, Y. Y.

DESCRIPTOR: *DESIGN; *GROUNDWATER; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *MODELS; *OPERATIONS; POST SECONDARY EDUCATION; *SYSTEMS ANALYSIS; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 500P. (NO. 025507-5)

ABSTRACT: DISCUSSION OF THE HEIRARCHICAL-MULTILEVEL APPROACH AS IT IS APPLIED TO THE PLANNING, OPERATION, AND MANAGEMENT OF LARGE-SCALE COMPLEX WATER RESOURCE SYSTEMS. WATER QUALITY AND QUANTITY OF BOTH SURFACE AND GROUNDWATER RESOURCES ARE CONSIDERED.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($39.50)

IRIS ACCESSION NUMBER: EW002891

PUBLICATION DATE: 70

TITLE: WATER RESOURCES SYSTEMS ENGINEERING.

PERSONAL AUTHOR: HALL, W. A.; DRACUP, J. A.

DESCRIPTOR: *GROUNDWATER; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *MODELS; POST SECONDARY EDUCATION; *SYSTEMS ANALYSIS; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 384P. (NO. 025590-3)

ABSTRACT: INCLUDES: THE NATURE OF WATER RESOURCES DEVELOPMENT; APPLICATION OF SYSTEMS ANALYSIS TO WATER RESOURCES SYSTEMS ELEMENTS; WATER RESOURCES INVESTMENT TIMING; MULTIPLE-PURPOSE WATER RESOURCES SYSTEMS; ANALYSIS OF GROUNDWATER SYSTEMS.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW002892

PUBLICATION DATE: 66

TITLE: ESTUARY AND COASTLINE HYDRODYNAMICS.

PERSONAL AUTHOR: IPPEN, A. T.

DESCRIPTOR: *ESTUARIES; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *MODELS; *OCEANOLOGY; *OCEANS; *POLLUTION; POST SECONDARY EDUCATION; SEDIMENTATION; WATER CHARACTERISTICS; *WATER RESOURCES; WATER WAVES

DESCRIPTIVE NOTE: 744P. (NO. 032015-2)

ABSTRACT: WAVE REFRACTION, DIFFRACTION AND REFLECTIONS; INTERACTION OF STRUCTURES AND WAVES; ESTUARIES; THE MECHANISM OF AN ARRESTED SALINE WEDGE; DIFFUSION PROCESSES IN STRATIFIED FLOW; POLLUTION IN ESTUARIES; SEDIMENTATION IN ESTUARIES; MODEL LAWS FOR COASTAL AND ESTUARINE MODELS; TIDAL AND SALINITY MODEL PRACTICE.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($36.50)

IRIS ACCESSION NUMBER: EW002893

TITLE: ECONOMICS OF WATER RESOURCES PLANNING.

PERSONAL AUTHOR: JAMES, L. D.; LEE, R. R.

DESCRIPTOR: *COST EFFECTIVENESS; *ECONOMICS; ENERGY; FLOOD CONTROL; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *PLANNING; POST SECONDARY EDUCATION; *WATER QUALITY; *WATER RESOURCES; WATER SUPPLY

ABSTRACT: INCLUDES: PRINCIPLES OF ENGINEERING ECONOMICS; PRICE THEORY AND RESOURCE ALLOCATION; BENEFIT-COST ANALYSIS; DYNAMICS OF PROJECT ANALYSIS; FLOOD CONTROL; DRAINAGE; WATER SUPPLY; HYDROELECTRIC POWER; WATER QUALITY CONTROL; MULTIPURPOSE WATER RESOURCES DEVELOPMENT; OPTIMIZATION BY SIMULATION.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW002894

PUBLICATION DATE: 72

TITLE: WATER RESOURCES ENGINEERING.

PERSONAL AUTHOR: LINSLEY, R. K.; FRANZINI, J.

DESCRIPTOR: *ENGINEERING; FLOOD CONTROL; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SEWAGE; *WASTEWATER TREATMENT; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 662P. (NO. 037959-9)

ABSTRACT: INCLUDES: DISCRIPTIVE HYDROLOGY: QUANTITATIVE HYDROLOGY; GROUNDWATER; PROBABILITY CONCEPTS OF DESIGN; WATER LAW; RESERVOIRS; DAMS; SPILLWAYS, GATES AND OUTLET WORKS; PLANNING; IRRIGATION; MUNICIPAL AND INDUSTRIAL WATER SUPPLY; HYDROELECTRIC POWER; DRAINAGE; SEWERAGE AND WASTEWATER TREATMENT; FLOOD DAMAGE MITIGATION.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($23.50)

IRIS ACCESSION NUMBER: EW002896

PUBLICATION DATE: 72

TITLE: WASTEWATER ENGINEERING: COLLECTION, TREATMENT, DISPOSAL.

DESCRIPTOR: *DESIGN; *ENGINEERING; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; PUMPS; *SEWERS; SLUDGE; *WASTEWATER TREATMENT; WATER CHARACTERISTICS; *WATER RESOURCES

DESCRIPTIVE NOTE: 782P. (NO. 041675-3; SOLUTION MANUAL (NO. 041676-1)

ABSTRACT: INCLUDES: DEVELOPMENT AND TRENDS IN WASTEWATER ENGINEERING; DETERMINATION OF SEWAGE FLOWRATES; HYDRAULICS OF SEWERS; DESIGN OF SEWERS; PUMPS AND PUMPING STATIONS; WASTEWATER CHARACTERISTICS; PHYSICAL UNIT OPERATIONS; CHEMICAL UNIT PROCESSES; DESIGN OF FACILITIES FOR: PHYSICAL AND CHEMICAL TREATMENT OF WASTEWATER, FOR BIOLOGICAL TREATMENT, DISPOSAL OF SLUDGE AND MORE.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($25.00)

INSTITUTION NAME: METCALF AND EDDIE, INC.

IRIS ACCESSION NUMBER: EW002897

PUBLICATION DATE: 70

TITLE: GROUNDWATER RESOURCE EVALUATION.

PERSONAL AUTHOR: WALTON, W. C.

DESCRIPTOR: *GROUNDWATER; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; *MODELS; POST SECONDARY EDUCATION; *SYSTEMS ANALYSIS; *WATER RESOURCES; WATER WELLS

DESCRIPTIVE NOTE: 672P. (NO. 68051-5)

ABSTRACT: INCLUDES: GROUNDWATER, MOVEMENT, STORAGE, EXPLORATION AND DATA. BASIC PRINCIPLES AND FUNDAMENTAL EQUATIONS; AQUIFER TEST AND FLOW-NET ANALYSIS; WELL-DESIGN CRITERIA, CONSTRUCTION, PRODUCTION TEST AND MAINTENANCE; GROUNDWATER RECHARGE AND RUNOFF; QUALITY OF GROUNDWATER; HYDROGEOLOGIC SYSTEMS ANALYSIS; DEVELOPMENT AND MANAGEMENT OF AQUIFERS.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($25.00)

IRIS ACCESSION NUMBER: EW002898

PUBLICATION DATE: 77

TITLE: ENVIRONMENTAL IMPACT ANALYSIS.

PERSONAL AUTHOR: CANTER, L.

DESCRIPTOR: AIR POLLUTION CONTROL; ECOLOGY; *ENVIRONMENTAL INFLUENCES; *IMPACT STATEMENTS; *INSTRUCTIONAL MATERIALS; *POLICY; *POLLUTION; POST SECONDARY EDUCATION; *REGULATIONS; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 384P. (NO. 009764-X)

ABSTRACT: DESIGNED AS A GENERAL TEXT ENCOMPASSING THE BROAD FIELD OF ENVIRONMENTAL IMPACT ASSESSMENT. RANGING FROM A BRIEF HISTORY OF THE IMPLEMENTATION OF THE NATIONAL ENVIRONMENTAL POLICY ACT TO PUBLIC PARTICIPATION IN ENVIRONMENTAL DECISION-MAKING, IT PRESENTS THE PREDICTION AND ASSESSMENT OF IMPACTS ON THE PHYSICAL-CHEMICAL, BIOLOGICAL, CULTURAL AND SOCIO-ECONOMIC ENVIRONMENT.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020 ($18.00)

IRIS ACCESSION NUMBER: EW002900

TITLE: WATER SUPPLY AND TREATMENT. BULLETIN 211, 11TH EDITION.

PERSONAL AUTHOR: HOOVER, C. P.; RIEHL, M. H.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER QUALITY; *WATER SUPPLY

ABSTRACT: GENERAL REVIEW OF PROBLEMS FACED IN WATER SUPPLY.

AVAILABILITY: NATIONAL LIME ASSOCIATION, 5010 WISCONSIN AVE., NW, WASHINGTON, D.C. 20016 ($5.00)

IRIS ACCESSION NUMBER: EW002906

ERIC ACCESSION NUMBER: ED119966

PUBLICATION DATE: JAN 75

TITLE: WATER RESOURCES. A BIBLIOGRAPHIC GUIDE TO REFERENCE SOURCES. BIBLIOGRAPHY SERIES NO. 2.

PERSONAL AUTHOR: RALSTON, VALERIE HUNTER

INSTITUTION CODE: BBB08913

SPONSORING AGENCY CODE: FGK21460

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *ENVIRONMENT; LIBRARY REFERENCE SERVICES; NATURAL RESOURCES; *REFERENCE BOOKS; REFERENCE MATERIALS; STATE OF THE ART REVIEWS; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE

DESCRIPTIVE NOTE: 122P.

ISSUE: RIEJUL76

ABSTRACT: THIS BIBLIOGRAPHIC GUIDE TO WATER RESOURCES MATERIALS PROVIDES A GUIDE TO REFERENCE MATERIALS IN THE FIELD. OF THE 411 REFERENCES TO INDIVIDUAL PUBLICATIONS OR SERVICES, 46 PERCENT ARE GOVERNMENT PUBLICATIONS OR SERVICES SPONSORED BY GOVERNMENT AGENCIES. REFERENCE MATERIALS REVIEWED INCLUDE: GUIDES TO THE LITERATURE; DICTIONARIES; ENCYCLOPEDIAS; THESAURI; HANDBOOKS; STATISTICAL SOURCES; ATLASES AND MAPS; STANDARDS; BIBLIOGRAPHIES; ANNUAL REVIEW PUBLICATIONS; INFORMATION SERVICES; DIRECTORIES; SELECTED FEDERAL GOVERNMENT SERIES; SELECTED STATE PUBLICATIONS; AND SERIAL LISTS. AUTHOR, KEY WORD SUBJECT, AND SELECTED TITLE INDICES CONCLUDE THIS PUBLICATION. (BT)

AVAILABILITY: INSTITUTE OF WATER RESOURCES, UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT 06268 ($5.00, PAYMENT MUST ACCOMPANY ORDER)

INSTITUTION NAME: CONNECTICUT UNIV., STORRS. LIBRARY.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW002909

PUBLICATION DATE: JUN 75

TITLE: COSTS OF WASTEWATER TREATMENT BY LAND APPLICATION

PERSONAL AUTHOR: POUND, CHARLES E.; AND OTHERS

DESCRIPTOR: *COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LAND USE; MUNICIPALITIES; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *LAND APPLICATION; *WASTEWATER EFFLUENTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 165P. ORDER NO. PB 257 439

ABSTRACT: THIS REPORT CONTAINS INFORMATION TO ASSIST PLANNERS AND ENGINEERS IN EVALUATING THE MONETARY COSTS AND BENEFITS OF MUNICIPAL WASTEWATER EFFLUENTS. COST CURVES, TABLES AND OTHER DATA ARE PRESENTED FOR ESTIMATING CAPITAL AND OPERATION AND MAINTENANCE COSTS FOR LAND APPLICATION FOR IMPLEMENTATION. BOTH NONREVENUE AND REVENUE-PRODUCING BENEFITS ARE DISCUSSED IN THE APPENDIX. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($8.00)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAM OPERATIONS.

IRIS ACCESSION NUMBER: EW002910

PUBLICATION DATE: 73

TITLE: THE CONTROL OF POLLUTION FROM HYDROGRAPHIC MODIFICATION.

DESCRIPTOR: *ENGINEERING TECHNOLOGY; *ENVIRONMENTAL INFLUENCES; *LAND USE; NATURAL RESOURCES; *POLLUTION; URBAN ENVIRONMENT; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *NONPOINT POLLUTION; WATER QUALITY; GROUNDWATER

DESCRIPTIVE NOTE: 188P.

ABSTRACT: THIS REPORT FULLFILLS THE REQUIREMENTS OF THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972. IT PRESENTS GUIDELINES FOR IDENTIFYING AND EVALUATING NON-POINT SOURCES OF POLLUTANTS. ALSO CONSIDERED ARE PROCESSES, PROCEDURES AND METHODS TO CONTROL POLLUTION RESULTING FROM CHANGES IN THE MOVEMENT, FLOW OR CIRCULATION OF NAVIGABLE OR GROUND WATERS. VARIOUS HYDROGRAPHIC MODIFICATIONS ARE DISCUSSED WITH POTENTIAL PROBLEMS IDENTIFIED FOR EACH. (CS).

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C. 20402 ($1.95)

INSTITUTION NAME: U.S. EPA WASHINGTON, D.C. 20460.

IRIS ACCESSION NUMBER: EW002911

PUBLICATION DATE: NOV 74

TITLE: A PILOT STUDY OF DRINKING WATER SYSTEMS IN THE US FOREST SERVICE SYSTEM.

DESCRIPTOR: CHEMICAL ANALYSIS; *ENVIRONMENTAL CRITERIA; ENVIRONMENTAL RESEARCH; NATURAL RESOURCES; *PUBLIC HEALTH; *SAMPLING TECHNIQUES; SANITATION; *WATER QUALITY; WATER POLLUTION CONTROL; *WATER SUPPLY

DESCRIPTIVE NOTE: 109P. ORDER NO. PB 240 493

ABSTRACT: THE PURPOSE OF THIS STUDY WAS TO ASSESS THE CONSTRUCTION, WATER QUALITY, OPERATION, MAINTENANCE AND SURVEILLANCE OF WATER SUPPLIES ON U S FOREST SERVICE LANDS AND TO MAKE APPROPRIATE RECOMMENDATIONS. INCLUDED IN THIS REPORT ARE THE CRITERIA USED FOR EVALUATION, THE PROCEDURES AND FINDINGS, A DISCUSSION OF THE DIFFERENT PARAMETERS; AND A SUMMARY OF THE FINDINGS AND RECOMMENDATIONS. A COPY OF THE SANITARY SURVEY FORM USED IN THE STUDY IS INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($6.50)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER AND HAZARDOUS MATERIALS, WATER DIVISION.

IRIS ACCESSION NUMBER: EW002912

PUBLICATION DATE: APR 76

TITLE: DETERMINATION OF RADIUM REMOVAL EFFICIENCIES IN IOWA WATER SUPPLY TREATMENT PROCESSES.

PERSONAL AUTHOR: SCHLIEKELMAN, R. J.

DESCRIPTOR: CHEMISTRY; COST EFFECTIVENESS; *ENVIRONMENTAL CRITERIA; POLLUTION; *PUBLIC HEALTH; *RESEARCH; UTILITIES; *WATER POLLUTION CONTROL; *WATER QUALITY; *IOWA; *RADIUM; *WATER TREATMENT

DESCRIPTIVE NOTE: 212P. ORDER NO. PB 259 509

ABSTRACT: THIS DOCUMENT REPORTS ON A STUDY OF SAMPLING AND ANALYSIS OF WATERS FROM NINE MUNICIPAL WATER TREATMENT PLANTS IN IOWA TO DETERMINE THE EFFICIENCY OF RADIUM-226 REMOVAL IN A VARIETY OF TREATMENT PROCESSES. FOUR DIFFERENT PROCESSES WERE TESTED: REVERSE OSMOSIS, IRON REMOVAL FILTRATION, SODIUM ION EXCHANGE, AND LIME-SODA ASH SOFTENING. ANALYSES WERE PERFORMED TO DETERMINE RADIUM, HARDNESS, AND OTHER PARAMETERS ON THE WELL WATER REMOVALS OF

THESE PARAMETERS THROUGH THE TREATMENT PROCESSES. INDICATIONS OF ANNUAL CAPITAL AND OPERATION COSTS AND PLANT MAINTENANCE COSTS ARE INCLUDED FOR REFERENCE. (CS).

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.25)

IRIS ACCESSION NUMBER: EW002916

ERIC ACCESSION NUMBER: ED147189

PUBLICATION DATE: 77

TITLE: EFFLUENT MONITORING PROCEDURES: NUTRIENTS. STAFF GUIDE.

INSTITUTION CODE: BBB13327

DESCRIPTOR: COURSE DESCRIPTIONS; *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POLLUTION; POST SECONDARY EDUCATION; SKILL DEVELOPMENT; TEACHING METHODS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS; *MONITORING; *NUTRIENTS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$12.71 PLUS POSTAGE.

DESCRIPTIVE NOTE: 247P.; FOR RELATED DOCUMENTS, SEE SE 023 377-383; SOME PAGES MAY REPRODUCE POORLY DUE TO PRINT QUALITY

ISSUE: RIEAPR78

ABSTRACT: THIS IS ONE OF SEVERAL SHORT-TERM COURSES DEVELOPED TO ASSIST IN THE TRAINING OF WASTE WATER TREATMENT PLANT OPERATIONAL PERSONNEL IN THE TESTS, MEASUREMENTS, AND REPORT PREPARATION REQUIRED FOR COMPLIANCE WITH THEIR NPDES PERMITS. THIS STAFF GUIDE PROVIDES STEP-BY-STEP GUIDELINES ON COURSE PLANNING, DEVELOPMENT AND IMPLEMENTATION INVOLVING CLASSROOM INSTRUCTION AND LABORATORY APPLICATION OF CRITICAL LEARNING OUTCOMES. PART I IS CONCERNED WITH THE ADMINISTRATIVE ASPECTS OF THE TRAINING PROGRAM. PART II CONSISTS OF INSTRUCTIONAL STAFF GUIDELINES ON TECHNICAL CONTENT, LEARNING OBJECTIVES, AND LESSON-BY-LESSON GUIDES FOR THE SELF-MONITORING PROCEDURES CONTAINED IN THIS COURSE. INCLUDED ARE A VARIETY OF TECHNIQUES FOR DETERMINING VARIOUS MATERIALS IN WATER INCLUDING PHOSPHORUS, NITROGEN, AMMONIA, CADMIUM, OIL, AND GREASE. (CS)

REPORT NUMBER: EPA-430-1-77-007

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002917

ERIC ACCESSION NUMBER: ED147192

PUBLICATION DATE: SEP 77

TITLE: EFFLUENT MONITORING PROCEDURES: METALS ANALYSES. STUDENT REFERENCE MANUAL.

INSTITUTION CODE: BBB13327

DESCRIPTOR: BEHAVIORAL OBJECTIVES; COURSE CONTENT; *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LABORATORY EQUIPMENT; LABORATORY TECHNIQUES; *METALS; *POLLUTION; POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS; *MONITORING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$16.73 PLUS POSTAGE.

DESCRIPTIVE NOTE: 319P.; FOR RELATED DOCUMENTS, SEE SE 023 377-383

ISSUE: RIEAPR78

ABSTRACT: THIS IS ONE OF SEVERAL SHORT-TERM COURSES DEVELOPED TO ASSIST IN THE TRAINING OF WASTE WATER TREATMENT PLANT OPERATIONAL PERSONNEL IN THE TESTS, MEASUREMENTS, AND REPORT PREPARATION REQUIRED FOR COMPLIANCE WITH THEIR NPDES PERMITS. THE STUDENT REFERENCE MANUAL PROVIDES STEP-BY-STEP PROCEDURES FOR LABORATORY APPLICATION OF EQUIPMENT OPERATING PROCEDURES FOR EFFLUENT MONITORING. EACH LESSON OUTLINES A SPECIFIC OBJECTIVE, DESCRIPTION OF THE ANALYSIS, AND THE APPLICABILITY OF THE PROCEDURE. PARAMETERS OF THIS COURSE INCLUDE ANALYSES OF SELECTED METALS, INCLUDING: BORON, COPPER, IRON, MERCURY, SODIUM, AND ZINC. (CS)

REPORT NUMBER: EPA-430-1-77-010

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002918

ERIC ACCESSION NUMBER: ED147194

PUBLICATION DATE: 77

TITLE: EFFLUENT MONITORING PROCEDURES: BASIC PARAMETERS FOR MUNICIPAL EFFLUENTS. STAFF GUIDE.

INSTITUTION CODE: BBB13327

DESCRIPTOR: CHEMISTRY; COURSE DESCRIPTIONS; *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; MICROBIOLOGY; *POLLUTION; POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS; *MONITORING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$16.73 PLUS POSTAGE.

DESCRIPTIVE NOTE: 315P.; FOR RELATED DOCUMENTS, SEE SE 023 377-383; AS NOTED IN THE TABLE OF CONTENTS, SECTIONS 18 AND 27 ARE NOT INCLUDED IN THE PAGINATION

ISSUE: RIEAPR78

ABSTRACT: THIS IS ONE OF SEVERAL SHORT-TERM COURSES DEVELOPED TO ASSIST IN THE TRAINING OF WASTE WATER TREATMENT PLANT OPERATIONAL PERSONNEL IN THE TESTS, MEASUREMENTS, AND REPORT PREPARATION REQUIRED FOR COMPLIANCE WITH THEIR NPDES PERMITS. THIS STAFF GUIDE PROVIDES STEP-BY-STEP GUIDELINES ON COURSE PLANNING, DEVELOPMENT AND IMPLEMENTATION INVOLVING CLASSROOM INSTRUCTION AND LABORATORY APPLICATION OF CRITICAL LEARNING OUTCOMES. PART I IS CONCERNED WITH THE ADMINISTRATIVE ASPECTS OF THE TRAINING PROGRAM. PART II CONSISTS OF INSTRUCTIONAL STAFF GUIDELINES ON TECHNICAL CONTENT, LEARNING OBJECTIVES, AND LESSON-BY-LESSON GUIDES FOR THE SELF-MONITORING PROCEDURES CONTAINED IN THIS COURSE. INCLUDED IN THIS DOCUMENT ARE MATERIALS RELATED TO DETERMINING DISSOLVED OXYGEN, PH, FECAL COLIFORM, WATER FLOW, SUSPENDED SOLIDS, AND CHLORINE. (CS)

REPORT NUMBER: EPA-430-1-77-008

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002919

ERIC ACCESSION NUMBER: ED147191

PUBLICATION DATE: 77

TITLE: EFFLUENT MONITORING PROCEDURES: METALS ANALYSES. STAFF GUIDE.

INSTITUTION CODE: BBB13327

DESCRIPTOR: COURSE DESCRIPTIONS; *EDUCATIONAL PROGRAMS; EMPLOYMENT QUALIFICATIONS; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *METALS; *POLLUTION; POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS; *MONITORING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 151P.; FOR RELATED DOCUMENTS, SEE SE 023 377-383 ; SOME PARTS OF THE DOCUMENT MAY NOT REPRODUCE CLEARLY DUE TO SMALL TYPE

ISSUE: RIEAPR78

ABSTRACT: THIS IS ONE OF SEVERAL SHORT-TERM COURSES DEVELOPED TO ASSIST IN THE TRAINING OF WASTE WATER TREATMENT PLANT OPERATIONAL PERSONNEL IN THE TESTS, MEASUREMENTS, AND REPORT PREPARATION REQUIRED FOR COMPLIANCE WITH THEIR NPDES PERMITS. THE STAFF GUIDE PROVIDES STEP-BY-STEP INFORMATION ON COURSE PLANNING, DEVELOPMENT, AND IMPLEMENTATION INVOLVING CLASSROOM INSTRUCTION AND LABORATORY APPLICATION OF CRITICAL LEARNING OUTCOMES. PART I IS CONCERNED WITH THE ADMINISTRATIVE ASPECTS OF THE TRAINING PROGRAM. PART II CONSISTS OF INSTRUCTIONAL STAFF GUIDELINES ON TECHNICAL CONTENT, LEARNING OBJECTIVES, AND LESSON-BY-LESSON GUIDES FOR THE SELF-MONITORING PROCEDURES CONTAINED IN THIS COURSE. (CS)

REPORT NUMBER: EPA-430-1-77-006

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002920

ERIC ACCESSION NUMBER: ED147193

PUBLICATION DATE: OCT 77

TITLE: EFFLUENT-MONITORING PROCEDURES: BASIC LABORATORY SKILLS. STUDENT REFERENCE MANUAL.

PERSONAL AUTHOR: ENGEL, WILLIAM T.; AND OTHERS

INSTITUTION CODE: BBB13327

DESCRIPTOR: CHEMISTRY; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; MICROBIOLOGY; *POLLUTION; POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS; *MONITORING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 182P.; FOR RELATED DOCUMENTS, SEE SE 023 377-383

ISSUE: RIEAPR78

ABSTRACT: THIS IS ONE OF SEVERAL SHORT-TERM COURSES DEVELOPED TO ASSIST IN THE TRAINING OF WASTE WATER TREATMENT PLANT OPERATIONAL PERSONNEL IN THE TESTS, MEASUREMENTS, AND REPORT PREPARATION REQUIRED FOR COMPLIANCE WITH THEIR NPDES PERMITS. THIS STUDENT REFERENCE MANUAL PROVIDES A REVIEW OF BASIC MATHEMATICS AS IT APPLIES TO THE CHEMICAL LABORATORY. THE USE OF EQUIPMENT AND SOLUTION PREPARATION ARE STRESSED. ADDITIONALLY, A MODULE ON BASIC MICROBIOLOGICAL TECHNIQUES IS INCLUDED. EACH LESSON OUTLINES A SPECIFIC OBJECTIVE, DESCRIPTION OF THE ANALYSIS, AND THE APPLICABILITY OF THE PROCEDURE. INCLUDED IN THIS DOCUMENT ARE MATERIALS RELATED TO DETERMINING DISSOLVED OXYGEN, PH, FECAL COLIFORM, WATER FLOW, SUSPENDED SOLIDS, AND CHLORINE. (CS)

REPORT NUMBER: EPA-430-1-77-011

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002921

ERIC ACCESSION NUMBER: ED147190

PUBLICATION DATE: JUN 76

TITLE: EFFLUENT MONITORING PROCEDURES: NUTRIENTS. STUDENT REFERENCE MANUAL.

INSTITUTION CODE: BBB13327

DESCRIPTOR: *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LABORATORY EQUIPMENT; *LABORATORY

TECHNIQUES; *POLLUTION; POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS; *MONITORING; *NUTRIENTS

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$27.45 PLUS POSTAGE.

DESCRIPTIVE NOTE: 503P.; FOR RELATED DOCUMENTS, SEE SE 023 377-383

ISSUE: RIEAPR78

ABSTRACT: THIS IS ONE OF SEVERAL SHORT-TERM COURSES DEVELOPED TO ASSIST IN THE TRAINING OF WASTE WATER TREATMENT PLANT OPERATIONAL PERSONNEL IN THE TESTS, MEASUREMENTS, AND REPORT PREPARATION REQUIRED FOR COMPLIANCE WITH THEIR NPDES PERMITS. THE STUDENT REFERENCE MANUAL PROVIDES STEP-BY-STEP PROCEDURES FOR LABORATORY APPLICATION OF EQUIPMENT OPERATING PROCEDURES FOR EFFLUENT MONITORING. EACH LESSON OUTLINES A SPECIFIC OBJECTIVE, DESCRIPTION OF THE ANALYSIS, AND THE APPLICABILITY OF THE PROCEDURE. PARAMETERS OF THIS COURSE INCLUDE TOTAL PHOSPHORUS, CHEMICAL OXYGEN DEMAND, KJELDAHL NITROGEN, AMMONIA, NITRATES, OIL, AND GREASE. (CS)

REPORT NUMBER: EPA-430-1-76-006

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002922

ERIC ACCESSION NUMBER: ED123094

PUBLICATION DATE: SEP 75

TITLE: A TWO-YEAR WATER QUALITY MONITORING CURRICULUM.

PERSONAL AUTHOR: GLAZER, RICHARD B.; AND OTHERS

INSTITUTION CODE: BBB09713

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *COURSE CONTENT; *COURSE DESCRIPTIONS; COURSE OBJECTIVES; COURSE ORGANIZATION; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; JOB TRAINING; *TECHNICAL EDUCATION; VOCATIONAL EDUCATION; *WATER POLLUTION CONTROL; ENVIRONMENTAL PROTECTION AGENCY; EPA; *MONITORING; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 98P.

ISSUE: RIESEP76

ABSTRACT: THE ENVIRONMENTAL PROTECTION AGENCY DEVELOPED THIS CURRICULUM TO TRAIN TECHNICIANS TO MONITOR WATER QUALITY. GRADUATES OF THE PROGRAM SHOULD BE ABLE TO MONITOR MUNICIPAL, INDUSTRIAL, AND COMMERCIAL DISCHARGES; TEST DRINKING WATER FOR PURITY; AND DETERMINE QUALITY OF AQUATIC ENVIRONMENTS. THE PROGRAM INCLUDES ALGEBRA, COMMUNICATION SKILLS, BIOLOGY, GENERAL CHEMISTRY, INSTRUMENTATION, STATISTICAL ANALYSIS, TECHNICAL REPORT WRITING, AND WATER QUALITY CONTROL PROCESSES, LABORATORY MANAGEMENT AND TECHNIQUES, AND FIELD EXPERIENCE. THE CURRICULUM FORMAT IS DESIGNED AROUND BEHAVIORAL OBJECTIVES DEFINING THE PURPOSE, INSTRUCTIONAL OBJECTIVES, CONDITIONS, AND ACCEPTABLE PERFORMANCE LEVELS FOR EACH COURSE OF STUDY. SEQUENCES OF COURSES, INDIVIDUAL COURSES, OR PARTS OF COURSES CAN BE ISOLATED OR RECOMBINED TO SATISFY WORKSHOPS, SHORT-TRAINING INSTITUTES, SEMINARS, OR DIPLOMA PROGRAMS. THUS, A VARIETY OF PATHWAYS CAN BE USED FOR RETRAINING OR ADDITIONAL TRAINING OF WATER QUALITY TECHNICIANS. (MR)

GRANT NUMBER: EPA-T900508-01

INSTITUTION NAME: ULSTER COUNTY COMMUNITY COLL., STONE RIDGE, N.Y.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW002925

PUBLICATION DATE: 76

TITLE: WATER HYACINTH CULTURE FOR WASTEWATER TREATMENT.

PERSONAL AUTHOR: DINGES, RAY

DESCRIPTOR: BOTANY; *ENVIRONMENT; *ENVIRONMENTAL RESEARCH; MANAGEMENT; *PLANT GROWTH; POLLUTION; PUBLIC HEALTH; SANITATION; *WATER RESOURCES; *WATER POLLUTION CONTROL; *AQUATIC PLANTS; *WASTEWATER TREATMENT; *WATER HYACINTH

DESCRIPTIVE NOTE: 143P.

ABSTRACT: THIS DOCUMENT REPORTS ON A FIELD STUDY CONDUCTED IN TEXAS TO EVALUATE THE FEASIBILITY OF NATURAL PURIFICATION TREATMENT OF WASTEWATER. THE OBJECTIVE WAS TO EVALUATE THE EFFECT OF WATER HYACINTH, EICHORNIA CRASSIPES, CULTURE UPON THE ORGANIC AND MINERAL QUALITY OF STABILIZATION POND EFFLUENT. INCLUDED IS A LITERATURE REVIEW, DESCRIPTION OF THE TEST SITE, TEST METHOD, RESULTS, DISCUSSION, SUMMARY, AND BIBLIOGRAPHY. THE REPORT ALSO CONTAINS EXTENSIVE TABLES AND FIGURES WHICH PRESENT THE DATA. STUDY RESULTS DEMONSTRATE THE WATER HYACINTH SHOULD BE REGARDED AS BEING A VALUABLE PLANT FOR USE IN THE PURIFICATION OF WASTEWATER. (CS).

AVAILABILITY: TEXAS DEPT. OF HEALTH, DIVISION OF WASTEWATER TECHNOLOGY AND SURVEILLANCE, 1100 W. 49TH ST., AUSTIN, TX 78756 (FREE)

IRIS ACCESSION NUMBER: EW002926

PUBLICATION DATE: JUN 77

TITLE: DETERGENT PHOSPHATE BAN.

DESCRIPTOR: COST EFFECTIVENESS; *ENVIRONMENT; ENVIRONMENTAL INFLUENCES; INDUSTRIAL TECHNOLOGY; *POLLUTION; *PUBLIC HEALTH; SANITATION; STATE LAWS; *WATER POLLUTION CONTROL; WATER RESOURCES; *GREAT LAKES WATER QUALITY AGREEMENT; *PHOSPHORUS

DESCRIPTIVE NOTE: 66P. ORDER NO. PB 269 903

ABSTRACT: THIS DOCUMENT PRESENTS THE POSITION OF REGION V, EPA, REGARDING DETERGENT PHOSPHORUS BANS IN THE GREAT LAKES BASIN. THE TEXT PROVIDES BACKGROUND ON PHOSPHORUS CONTROL POLICY BOTH BY INDIVIDUAL LAKES AND THE STATES SURROUNDING THEM. ADDITIONALLY, THE ADVANTAGES AND DISADVANTAGES OF A BAN ARE GIVEN BY STATE FROM THE ENVIRONMENTAL AND ECONOMIC VIEWPOINT. THE FINAL SECTION OF THIS CIRCULAR DISCUSSES THE FEASIBILITY OF A DETERGENT PHOSPHATE BAN AND THE RECOMMENDATIONS FOR ITS ADOPTION IN ALL OF THE STATES IN THE GREAT LAKES BASIN.(CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

INSTITUTION NAME: U.S. EPA, REGION V PHOSPHOROUS COMMITTEE.

IRIS ACCESSION NUMBER: EW002928

PUBLICATION DATE: 74

TITLE: ECOLOGICAL TOXICOLOGY RESEARCH.

PERSONAL AUTHOR: MCINTYRE, A. D.; MILLS, D. F.

DESCRIPTOR: ECOLOGY; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *ORGANIC CHEMISTRY; *PHYSIOLOGY; *POLLUTION; HEAVY METALS; TOXICOLOGY

DESCRIPTIVE NOTE: 323P.

ABSTRACT: THIS VOLUME PRESENTS AN ACCOUNT OF THE CONFERENCE ON THE ECOTOXICITY OF HEAVY METALS AND ORGANOHALOGEN COMPOUNDS SPONSORED BY THE NATO SCIENCE COMMITTEE (1974). PART I CONTAINS THE TEXT OF EIGHT LECTURES PRESENTED DURING THE PLENARY SESSIONS. THEY DEAL PRIMARILY WITH THE INTERACTIONS OF HEAVY METALS AND DIFFERENT ECOSYSTEMS. PART II CONTAINS SELECTED PAPERS WHICH DEAL WITH THE SCOPE OF SCIENTIFIC INQUIRY FOR ASSESSING POTENTIALLY TOXIC MATERIALS IN THE ENVIRONMENT. PART III CONTAINS THE WORKING GROUP REPORTS AND THEIR RECOMMENDATIONS. THE WORKING GROUPS DISCUSSED ISSUES CONCERNED WITH THE ENTRY, DISTRIBUTION, UPTAKE, FATE, AND ACTION OF HEAVY METALS IN THE PHYSICAL ENVIRONMENT AND IN LIVING ORGANISMS, (CS)

AVAILABILITY: PLENUM PRESS, 227 W. 117TH STREET, NEW YORK, NY 10011 ($25.00)

IRIS ACCESSION NUMBER: EW002930

PUBLICATION DATE: 75

TITLE: MARINE CHEMISTRY IN THE COASTAL ENVIRONMENT.

PERSONAL AUTHOR: CHURCH, THOMAS M.

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; LUBRICANTS; *MARINE BIOLOGY; METALS; NATURAL RESOURCES; *OCEANOLOGY; *POLLUTION; *RESEARCH; *RESEARCH REVIEWS; WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 710P.

ABSTRACT: THIS BOOK CONTAINS INFORMATION PRESENTED AT SYMPOSIA ON THE RECENT ADVANCES OF MARINE CHEMISTRY IN THE COASTAL ENVIRONMENT. THE PAPERS AND SESSIONS DISCUSSED LOOK TO THOSE PROCESSES THAT INTEGRATE BASIC CHEMISTRY, TRACER TECHNIQUES, GEOCHEMISTRY, POLLUTANT FATES, WASTE DISPOSAL, RESOURCE APPLICATIONS, AND BIOLOGICAL DYNAMICS IN THE COASTAL OCEAN. THE PAPERS INCLUDED ARE NOT EDITED OR REVIEWED BUT ARE REPRODUCED AS SUBMITTED BY THE AUTHOR. BOTH REPORTS OF RESEARCH AND REVIEWS ARE INCLUDED. EACH PRESENTATION INCLUDES A BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 115 16TH STREET, NW, WASHINGTON, D.C. 20036 ($35.75)

INSTITUTION NAME: AMERICAN CHEMICAL SOCIETY.

IRIS ACCESSION NUMBER: EW002931

PUBLICATION DATE: 69

TITLE: MARINE CHEMISTRY: THE STRUCTURE OF WATER AND THE CHEMISTRY OF THE HYDROSPHERE.

PERSONAL AUTHOR: HORNE, R. A.

DESCRIPTOR: *CHEMISTRY; *COLLEGE SCIENCE; ENVIRONMENT; ENVIRONMENTAL RESEARCH; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; NUTRIENTS; *OCEANOLOGY; RADIOCHEMISTRY; *TEXTBOOKS; WATER ANALYSIS; WATER CHARACTERISTICS

DESCRIPTIVE NOTE: 568P.

ABSTRACT: PRESENTED IS A DETAILED UNDERSTANDING OF THE NATURE OF WATER AND AQUEOUS ELECTROLYTIC SOLUTIONS AND OF THE PHYSICAL CHEMICAL PROCESSES WHICH OCCUR IN THE STUDY OF MARINE CHEMISTRY. THE TEXT IS DIVIDED INTO FOUR MAJOR SECTIONS. PART I DEALS WITH THE PHYSICAL PROPERTIES OF WATER AND PART II DISCUSSES THE CHEMICAL PROPERTIES OF WATER. BOTH SEAWATER AND RELATED SYSTEMS ARE EXAMPLED WHENEVER POSSIBLE. THE CHEMISTRY OF MARINE INTERFACES (AIR-SEA; SEA-OCEAN BOTTOM) ARE PRESENTED IN PART III. VARIOUS SELECTED TOPICS IN CHEMICAL OCEANOGRAPHY COMPRISE THE MATERIAL PRESENTED IN THE LAST SECTION. (CS)

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($33.00)

IRIS ACCESSION NUMBER: EW002932

PUBLICATION DATE: 74

TITLE: NUTRIENTS AND TOXIC SUBSTANCES IN WATER FOR LIVESTOCK AND POULTRY.

DESCRIPTOR: AGRICULTURAL PRODUCTION; CHEMISTRY; *DOMESTIC ANIMALS; ENVIRONMENT; MINERALS; *NUTRIENTS; NATURAL RESOURCES; *POLLUTION; RESEARCH REVIEWS; *TOXICITY; *WATER ANALYSIS; *WATER QUALITY; RESEARCH REPORTS; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 93P.

ABSTRACT: THIS REPORT SUMMARIZES INFORMATION ON THE EFFECTS OF KNOWN NUTRIENT AND TOXIC SUBSTANCES THAT OCCUR IN WATER CONSUMED BY DOMESTIC ANIMALS. IT ALSO DISCUSSES DATA CONCERNING WATER REQUIREMENTS, THE PERCENTAGES OF THE RECOMMENDED INTAKE OF VARIOUS REQUIRED ELEMENTS, AND SUBSTANCES THAT MAY BE PROVIDED IN NORMAL WATER INTAKE EACH DAY. THE CONCENTRATION OF SUBSTANCES THAT MAY OCCUR AT TOXIC LEVELS FOR VARIOUS SPECIES ARE INDICATED. (CS)

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW, WASHINGTGTON, D.C. 20418 ($4.75)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW002933

PUBLICATION DATE: 70

TITLE: MARINE CHEMISTRY, VOLUME 2: THEORY AND APPLICATIONS.

PERSONAL AUTHOR: MARTIN, DEAN F.

DESCRIPTOR: BIOLOGY; CHEMICAL ANALYSIS; *CHEMISTRY; *COLLEGE SCIENCE; ECOLOGY; ENERGY; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; MINERALS; NUTRIENTS; *OCEANOLOGY; *TEXTBOOKS; *WATER CHARACTERISTICS

DESCRIPTIVE NOTE: 451P.

ABSTRACT: THIS TEXT PRESENTS A TOTAL INTEGRATED APPROACH TO THE ESSENTIALS OF MARINE CHEMISTRY. THE FACTS, THEORY, AND IMPLICATIONS OR APPLICATIONS ARE INTEGRATED AS COMPLETELY AS POSSIBLE WITH CONSIDERABLE EMPHASIS PLACED UPON THE INTERACTIONS OF ORGANISMS, CHEMICALS AND ENVIRONMENT. THE BIOGEOCHEMICAL CYCLES OF THE SEA (SILICON, PHOSPHORUS, NITROGEN, AND CARBON) ARE STRESSED, AS WELL AS THE IMPORTANT ROLES THESE CYCLES PLAY. THE ORGANIC AND MINERAL RESOURCES OF THE SEA ARE DISCUSSED WITH CONSIDERATION GIVEN TO THE PROMISE AND PROBLEMS OF OBTAINING FOOD. EACH CHAPTER CONCLUDES WITH A SUMMARY OF THE NOTABLE CONCEPTS THAT HAVE BEEN INTRODUCED WITHIN THE CHAPTER AND SERVES AS AN INTRODUCTION TO THE SUBSEQUENT CHAPTERS. (CS)

AVAILABILITY: MARCEL DEKKER, 95 MADISON AVE., NEW YORK, NY 10016 ($13.50)

IRIS ACCESSION NUMBER: EW002934

PUBLICATION DATE: 72

TITLE: MARINE CHEMISTRY, VOLUME 1: ANALYTICAL METHODS.

PERSONAL AUTHOR: MARTIN, DEAN F.

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHEMISTRY; *COLLEGE SCIENCE; HIGHER EDUCATION; *LABORATORY PROCEDURES; MARINE; NUTRIENTS; *OCEANOLOGY; POLLUTION; SEDIMENTS; *WATER ANALYSIS; *WATER CHARACTERISTICS

DESCRIPTIVE NOTE: 389P.

ABSTRACT: PRESENTED ARE THE ANALYTICAL METHODS IMPORTANT TO THE FIELD OF MARINE CHEMISTRY. THEORY AND PRACTICE ARE PRESENTED AS AN INTEGRATED WHOLE AND THE VOLUME IS WRITTEN FOR POTENTIAL USERS WHO HAVE WIDELY DIFFERING BACKGROUNDS. THE BOOK IS DIVIDED INTO FIVE BASIC SECTIONS WHICH DEAL WITH THE BASIC CONTENTS AND METHODS OF MARINE CHEMISTRY, ANALYSIS OF SELECTED MICRONUTRIENTS AND RELATED COMPOUNDS, SPECTROSCOPIC TECHNIQUES, ANALYSIS OF POLLUTED WATER, AND ANALYSIS OF SEDIMENTS AND SELECTED ORGANIC MATTER. (CS)

AVAILABILITY: MARCEL DEKKER, 95 MADISON AVE., NEW YORK, NY 10016 ($11.50)

IRIS ACCESSION NUMBER: EW002935

PUBLICATION DATE: SEPT 76

TITLE: WASTEWATER: IS MUSKEGON COUNTY'S SOLUTION YOUR SOLUTION?

DESCRIPTOR: COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; *LAND USE; *MUNICIPALITIES; POLLUTION; *PROGRAM DESCRIPTIONS; *PUBLIC HEALTH; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *LAND TREATMENT; *MICHIGAN; *WASTEWATER TREATMENT; *LAND APPLICATION

DESCRIPTIVE NOTE: 50P. ORDER NO. PB 270 865; AVAILABLE ON MICROFICHE ONLY - $3.00

ABSTRACT: THIS BOOKLET REPORTS ON THE WASTEWATER TREATMENT SYSTEM UNDERTAKEN BY MUSKEGON COUNTY, MICHIGAN. THIS LAND TREATMENT SYSTEM IS DISCUSSED FROM ITS IMPACT ON REMOVING POLLUTANTS FROM THE ENVIRONMENT, INCREASING CROP PRODUCTION, AND BOLSTERING THE COMMUNITIES ECONOMY BY REDUCING OPERATING COSTS AND ATTRACTING NEW INDUSTRY. THIS BOOKLET CAN SERVE AS A GUIDE FOR URBAN AND INDUSTRIAL COMMUNITIES THAT FACE WASTEWATER PROBLEMS SIMILAR TO THOSE RESOLVED BY MUSKEGON COUNTY. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($3.00)

INSTITUTION NAME: U.S. EPA, S[illegible] N V.

IRIS ACCESSION NUMBER: EW002939

PUBLICATION DATE: 76

TITLE: STRATEGIES FOR MARINE POLLUTION MONITORING.

PERSONAL AUTHOR: GOLDBERG, EDWARD D., ED.

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMISTRY; COLLEGE SCIENCE; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *OCEANOLOGY; ORGANIC CHEMISTRY; *POLLUTION; SAMPLING; TECHNICAL MATERIAL; *TEXTBOOKS; *WATER ANALYSIS; *WATER POLLUTION CONTROL; *MONITORING; *POLLUTANTS

DESCRIPTIVE NOTE: 310P.

ABSTRACT: THIS BOOK IS ORGANIZED INTO FOUR PARTS. THE FIRST PART DEALS WITH METHODS OF ANALYSIS OF ORGANIC SPECIES AND CONTAINS CHAPTERS ON PETROLEUM HYDROCARBONS, POLYCHLOROBIPHENOLS AND DDT COMPOUNDS; LOW MOLECULAR WEIGHT HALOCARBONS; TRACE ANALYSIS OF PHTHALATES (AND CHLORINATED HYDROCARBONS) IN MARINE SAMPLES, PLASTIC PELAGIC TAR, AND OTHER LITTER. PART TWO DEALS WITH ANALYSIS OF INORGANIC SPECIES AND COVERS ACTIVATION ANALYSIS, ATOMIC ABSORPTION SPECTROPHOTOMETRY, AND PLUTONIUM. PART THREE COVERS ANALYTICAL AIDS SUCH AS SYNTHETIC ION EXCHANGE RESINS. PART FOUR DISCUSSES SAMPLING MARINE WATERS, SAMPLING MARINE ORGANISMS, AND TRANSPORT PATHS. (BB)

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, NJ 08873 ($21.50)

IRIS ACCESSION NUMBER: EW002940

PUBLICATION DATE: 77

TITLE: FATE OF POLLUTANTS IN THE AIR AND WATER ENVIRONMENT, PART 2.

PERSONAL AUTHOR: SUFFET, I. H.

DESCRIPTOR: *AIR POLLUTION CONTROL; *BIODEGRADATION; BIOLOGY; *CHEMICAL TREATMENT; CHLORINATED HYDROCARBONS; *COLLEGE SCIENCE; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; ORGANIC CHEMISTRY; PESTICIDES; TEXTBOOKS; *WATER POLLUTION CONTROL; *POLLUTANTS; *HEAVY METALS

DESCRIPTIVE NOTE: 442P.

ABSTRACT: THIS VOLUME ON THE BIOLOGICAL AND CHEMICAL FATE OF POLLUTANTS IN THE ENVIRONMENT COMPARES APPROACHES TO THE STUDY OF POLLUTANTS IN THE AIR AND WATER ENVIRONMENTS. THE PRIMARY METHODS OF ANALYSIS USED ARE MATHEMATICAL MODELING AND EVALUATION OF DATA COLLECTED FROM THE ENVIRONMENT. THE BIOLOGICAL AND CHEMICAL FATE OF PESTICIDES IS DISCUSSED AS WELL AS THE FATE OF OTHER ORGANIC COMPOUNDS SUCH AS: PHTHALATES, HYDROCARBONS (ESPECIALLY THE POLYNUCLEAR TYPE), HEAVY METAL COMPLEXES, CHLORINATED ORGANICS, AND HUMIC ACIDS. OTHER POLLUTANTS COVERED INCLUDE NUTRIENTS, HEAVY METALS, ACID GASES, AND RADIOACTIVE MATERIALS. (BB).

AVAILABILITY: JOHN WILEY & SONS, INC. ONE WILEY DR., SOMERSET, NJ 08873 ($24.95)

IRIS ACCESSION NUMBER: EW002941

PUBLICATION DATE: OCT 77

TITLE: COST OF LANDSPREADING AND HAULING SLUDGE FROM MUNICIPAL WASTEWATER TREATMENT PLANTS.

PERSONAL AUTHOR: ANDERSON, R. KENT

DESCRIPTOR: AGRICULTURE; COST EFFECTIVENESS; *LAND APPLICATION; *LAND USE; *RESEARCH REPORTS; SEWAGE; *SLUDGE; SOIL APPLICATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 157P. ORDER NO. PB 274 875

ABSTRACT: IT HAS BEEN ESTIMATED THAT ABOUT TWENTY-FIVE PERCENT OF THE MUNICIPAL WASTEWATER TREATMENT PLANT SLUDGE PRODUCED IN THE UNITED STATES IS DISPOSED OF BY LANDSPREADING. HOWEVER, THE COST OF THIS OPERATION IS SELDOM KNOWN. THIS REPORT PRESENTS AN ANALYSIS OF THE COST OF EXISTING LANDSPREADING OPERATIONS IN TWENTY-FOUR COMMUNITIES WITH SMALL TO MEDIUM-SIZED PLANTS. THE RESULTS ARE AS FOLLOWS: THE LANDSPREADING OF LIQUID SLUDGE WAS FAR LESS EXPENSIVE THAN LANDSPREADING OF SLUDGE DEWATERED BY VACUUM FILTRATION; PERSONNEL COSTS REPRESENTED THE LARGEST SINGLE COST ITEM FOR BOTH LIQUID AND DEWATERED SLUDGE LANDSPREADING; LIQUID SLUDGE WAS MORE READILY ACCEPTABLE TO THE FARMING COMMUNITY THAN DEWATERED SLUDGE. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($8.00)

INSTITUTION NAME: U.S. EPA, OFFICE OF SOLID WASTE MANAGEMENT PROGRAMS.

IRIS ACCESSION NUMBER: EW002942

PUBLICATION DATE: AUG 77

TITLE: USER ACCEPTANCE OF WASTEWATER SLUDGE COMPOST.

PERSONAL AUTHOR: ETTLICH, WILLIAM F.; LEWIS, ANNE E.

DESCRIPTOR: *ATTITUDES; *LAND USE; MUNICIPALITIES; *POLLUTION; *RESEARCH; SANITATION; *SURVEYS; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 56P. ORDER NO. PB 272 095

ABSTRACT: THIS DOCUMENT REPORTS ON A STUDY CONDUCTED IN 1975-76 TO DETERMINE USER ACCEPTANCE OF WASTEWATER SLUDGE BASED COMPOST. EXISTING OPERATIONS WERE ANALYZED TO DETERMINE SUCCESS FACTORS. CURRENT USERS WERE INTERVIEWED TO DETERMINE THE FACTORS WHICH ARE PERTINENT TO USER ACCEPTANCE OF WASTEWATER SLUDGE COMPOST, SPECIFIC PRODUCT CHARACTERISTICS REQUIRED BY CERTAIN USERS, AND OTHER RELATED FACTORS. THE RESEARCH METHODS AND RESULTS ARE PRESENTED IN

DETAIL. SAMPLES OF USER INTERVIEWS ARE CONTAINED IN THE APPENDICES. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

IRIS ACCESSION NUMBER: EW002943

PUBLICATION DATE: AUG 77

TITLE: ENVIRONMENTAL EFFECTS OF SEPTIC TANK SYSTEMS.

PERSONAL AUTHOR: SCALF, MARION R.; AND OTHERS

DESCRIPTOR: *ENVIRONMENT; *POLLUTION; REFERENCE BOOKS; SANITATION; *SEPTIC TANKS; *SEWAGE; GROUNDWATER; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 43P. ORDER NO. PB 272 702

ABSTRACT: SEPTIC TANK-SOIL ABSORPTION SYSTEMS ARE THE MOST WIDELY-USED METHOD OF ON-SITE DOMESTIC WASTE DISPOSAL. ALMOST ONE THIRD OF THE UNITED STATES POPULATION DEPENDS ON SUCH SYSTEMS. ALTHOUGH THE PERCENTAGE OF NEWLY CONSTRUCTED HOMES UTILIZING SEPTIC TANKS IS DECREASING, THE TOTAL NUMBER CONTINUES TO INCREASE. PROPERLY DESIGNED, CONSTRUCTED AND OPERATED SEPTIC TANK SYSTEMS HAVE DEMONSTRATED AN EFFICIENT AND ECONOMICAL ALTERNATIVE TO PUBLIC SEWER SYSTEMS, PARTICULARLY IN RURAL AND SPARSELY DEVELOPED SUBURBAN AREAS. HOWEVER, BECAUSE OF THEIR WIDESPREAD USE IN UNSUITABLE SITUATIONS, THEY HAVE ALSO DEMONSTRATED THE POTENTIAL FOR CONTAMINATION OF GROUND AND SURFACE WATERS. THERE ARE SEVERAL MODIFICATIONS AVAILABLE TO CONVENTIONAL SEPTIC TANK SYSTEMS WHICH SIGNIFICANTLY EXPAND THEIR AREA OF APPLICABILITY. ZONING AND LAND-USE PLANNING IN AREAS OF CONSIDERABLE SEPTIC TANK ACTIVITY SHOULD BE BASED ON A THOROUGH UNDERSTANDING OF SOIL VARIABILITY, GEOLOGY, TOPOGRAPHY, AND AQUIFER CHARACTERISTICS. RESEARCH SHOULD BE CONTINUED INTO THE BASIC QUESTIONS OF SEPTIC TANK USE. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

INSTITUTION NAME: ROBERT S. KERR ENVIRONMENTAL RESEARCH LAB.

IRIS ACCESSION NUMBER: EW002944

PUBLICATION DATE: JUN 77

TITLE: PROCEEDINGS OF THE THIRD NATIONAL GROUND WATER QUALITY SYMPOSIUM.

DESCRIPTOR: *GROUNDWATER; *POLLUTION; *RESEARCH REPORTS; SEWAGE; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 240P. ORDER NO. PB 272 908

ABSTRACT: THE THIRD NATIONAL GROUND WATER QUALITY SYMPOSIUM WAS HELD IN LAS VEGAS, SEPTEMBER 15-17, 1976, IN CONJUNCTION WITH THE ANNUAL CONVENTION OF THE NATIONAL WATER WELL ASSOCIATION. THERE WERE EIGHT MAIN SESSIONS ENCOMPASSING 24 TECHNICAL PAPERS. THESE WERE CONCERNED WITH THE DISPOSAL OF WASTE ON THE LAND, THE MOVEMENT OF POLLUTANTS IN THE SUBSURFACE, AND ARTIFICIAL RECHARGE. A SPECIAL SESSION WAS DEDICATED TO GROUND WATER IN THE LAS VEGAS VALLEY. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.50)

INSTITUTION NAME: ROBERT S. KERR ENVIRONMENTAL RESEARCH LAB.

IRIS ACCESSION NUMBER: EW002945

PUBLICATION DATE: SEP 77

TITLE: TREATMENT AND DISPOSAL OF WASTES PUMPED FROM SEPTIC TANKS.

PERSONAL AUTHOR: COSENZA, BENJAMIN J.; AND OTHERS

DESCRIPTOR: BIOCHEMICAL OXYGEN DEMAND; CHEMICAL OXYGEN DEMAND; *ECONOMICS; *POLLUTION; *SANITATION; *SEPTIC TANKS; *SEWAGE; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 170P. ORDER NO. PB 272 656

ABSTRACT: A MULTIDISCIPLINARY TEAM WAS ORGANIZED TO IDENTIFY FEASIBLE METHODS FOR TREATING AND DISPOSING WASTES PUMPED FROM SEPTIC TANKS (SEPTAGE). BIOLOGICAL, CHEMICAL AND PHYSICAL PROPERTIES OF SEPTAGE WERE DETERMINED. STATISTICAL DATA AND DESIGN CURVES WERE DEVELOPED FOR USE IN THE DESIGN OF SEPTAGE TREATMENT PROCESSES AND FACILITIES. TWO APPROACHES WERE DEVELOPED, TESTED IN BOTH LABORATORY AND PILOT PLANT STUDIES, AND FOUND FEASIBLE FOR TREATING AND DISPOSING OF SEPTAGE: (1) SOIL INJECTION, AND (2) ANAEROBIC-AEROBIC SERIES PROCESSES. THESE SERIES PROCESSES CAN SUSTAIN SHOCK LOADINGS AND REDUCE THE CONCENTRATIONS OF BOD, COD, AND TOTAL KJELDAHL NITROGEN BY AT LEAST 93 PERCENT. MOST OF THE NITROGEN IS CONVERTED TO NITRATE. AS A RULE OF THUMB, THE TOTAL COST OF TREATING 1000 GALLONS (3,785 LITERS) OF SEPTAGE IS APPROXIMATELY 18 TIMES THE COST FOR TREATING THE SAME AMOUNT OF RAW WASTEWATER IN A SECONDARY TREATMENT FACILITY. OPERATING COSTS FOR TREATING SEPTAGE IN 10 MGD PLANTS ARE ESTIMATED TO BE ABOUT HALF THE TREATMENT COSTS IN 1 MGD PLANTS OR AT 1972 PRICES $1.80/1,000 GALLONS ($0.48/1000 LITERS) AS COMPARED WITH $3.24/1000 GALLONS ($0.86/1000 LITERS). (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($8.00)

INSTITUTION NAME: MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI.

IRIS ACCESSION NUMBER: EW002946

PUBLICATION DATE: AUG 77

TITLE: EFFECTS OF FLOW EQUALIZATION ON THE OPERATION AND PERFORMANCE OF AN ACTIVATED SLUDGE PLANT.

PERSONAL AUTHOR: FOESS, G. W.; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; CHEMICAL OXYGEN DEMAND; *FLOW MEASUREMENT; RESEARCH REPORTS; SEWAGE; *SLUDGE; *WASTEWATER TREATMENT; *COST EFFECTIVENESS; *OPERATIONS (WASTEWATER)

DESCRIPTIVE NOTE: 110P. ORDER NO. PB 272 657

ABSTRACT: A PLANT-SCALE RESEARCH PROGRAM WAS CARRIED OUT OVER A YEAR TO EVALUATE THE IMPACT OF FLOW EQUALIZATION OF THE 14,000 CU.M./DAY (3.7 MGD) UPGRADED ACTIVATED SLUDGE PLANT AT YPSILANTI TOWNSHIP, MICHIGAN. PROCESS STREAMS WERE CHARACTERIZED UNDER BOTH EQUALIZED AND UNEQUALIZED FLOW CONDITIONS WITH RESPECT TO BOD, COD, TSS AND FORMS OF NITROGEN AND PHOSPHORUS. THE EQUALIZATION SYSTEM WAS EFFECTIVE IN ITS ABILITY TO DAMPEN VARIATIONS IN WASTEWATER CONCENTRATION AND MASS FLUX. SOME BIOCHEMICAL ACTION APPARENTLY OCCURRED IN THE EQUALIZATION BASIN, ALTHOUGH BOD REMOVAL WAS MARGINAL AND INCONSISTENT. ANALYSIS OF SECONDARY EFFLUENT INDICATED THAT PLANT PERFORMANCE WAS SIMILAR WITH AND WITHOUT EQUALIZED FLOW, SUGGESTING THAT THE THEORETICAL ADVANTAGES OF FLOW EQUALIZATION MAY NOT BE ACHIEVED IN MANUALLY CONTROLLED PLANTS. AN EXAMINATION OF THEORETICAL POWER COSTS FOR EQUALIZED AND UNEQUALIZED FLOW CONDITIONS INDICATED THAT USE OF FLOW EQUALIZATION DID NOT RESULT IN POWER COST ECONOMIES. (BB)

AVAILABILITY: NTIS, 5285 PROT ROYAL RD., SPRINGFIELD, VA 22161 ($6.50)

INSTITUTION NAME: MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI.

IRIS ACCESSION NUMBER: EW002947

PUBLICATION DATE: 77

TITLE: GOODBYE TO THE FLUSH TOILET.

PERSONAL AUTHOR: STONER, CAROL HUPPING, ED.

DESCRIPTOR: *NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; RECYCLING; *SANITATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER QUALITY; *TOILETS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 285P.

ABSTRACT: THIS BOOK DISCUSSES ALTERNATIVES FOR DISPOSAL OF HUMAN WASTES THROUGH THE USE OF VACUUM AND WATERLESS TOILETS, SELF-CONTAINED CHEMICAL AND INCINERATING TOILETS, AND ALSO THROUGH AEROBIC TANKS DESIGNED TO REPLACE SEPTIC TANKS, PRESSURE SEWERS, AND TOTAL HOUSEHOLD WATER RECYCLING SYSTEMS. THE TEXT CONTAINS NUMEROUS DIAGRAMS FOR CONSTRUCTING THE ALTERNATIVES MENTIONED AND ALSO PROVIDES A LISTING OF SOME HARDWARE SOURCES. A BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: RODALE PRESS, 33 E. MINOR ST., EMMAUS, PA 18049 ($20.00)

IRIS ACCESSION NUMBER: EW002948

PUBLICATION DATE: AUG 77

TITLE: WATER QUALITY ASSESSMENT: A SCREENING METHOD FOR NONDESIGNATED 208 AREAS.

PERSONAL AUTHOR: ZISON, STANLEY W.; AND OTHERS

DESCRIPTOR: CHEMISTRY; EVALUATION; LIMNOLOGY; *MEASUREMENT TECHNIQUES; *NATURAL RESOURCES; *PLANNING; POLLUTION; OCEANOLOGY; *RESEARCH METHODOLOGY; WASTE DISPOSAL; *WATER QUALITY; *WATER POLLUTION CONTROL; *SECTION 208 PROGRAM (EPA); *WATER ANALYSIS; *MONITORING

DESCRIPTIVE NOTE: 1217P. ORDER NO. PB 277 161

ABSTRACT: THIS REPORT CONTAINS A SIMPLIFIED METHODOLOGY WHICH NONDESIGNATED 208 PLANNERS CAN USE TO PERFORM A PRELIMINARY ASSESSMENT OF SURFACE WATER QUALITY. ANALYSES REQUIRE LITTLE DATA AND ARE DESIGNED TO BE ACCOMPLISHED WITH A DESK TOP CALCULATOR. CALCULATION PROCEDURES ARE INCLUDED FOR THE FOLLOWING SUBJECTS: WASTELOAD ESTIMATION; STREAM ANALYSES FOR TEMPERATURE, DISSOLVED OXYGEN, BACTERIA AND PLANT NUTRIENTS; LAKE ANALYSES FOR STRATIFICATION, SEDIMENT ACCUMULATION, EUTROPHICATION, AND DISSOLVED OXYGEN; AND ESTUARINE ANALYSES FOR TURBIDITY, SEDIMENT ACCUMULATION, AND SALINITY. DATA ARE INCLUDED IN TABLES, FIGURES AND APPENDICES TO INCREASE THE UTILITY OF THE DOCUMENT. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW002949

PUBLICATION DATE: 77

TITLE: KILLING THE HIDDEN WATERS.

PERSONAL AUTHOR: BOWDEN, CHARLES

DESCRIPTOR: *AMERICAN INDIANS; *CULTURAL ENVIRONMENT; CONSERVATION; ECOLOGY; *ENVIRONMENT; HISTORY; LAND USE; *NATURAL RESOURCES; *TECHNOLOGY; *WATER RESOURCES; *GROUNDWATER; *UNITED STATES

DESCRIPTIVE NOTE: 174P.

ABSTRACT: THIS BOOK IS A STUDY OF THE SOUTHWESTERN UNITED STATES FROM THE PERSPECTIVE OF THE UTILIZATION OF THE VITAL RESOURCE OF WATER, PARTICULARLY GROUND WATER, AND WHAT IT HAS MEANT FOR THE PEOPLE AND THE LAND. THE TEXT IS BASED ON SCIENTIFIC PRINCIPLES WITH AN INTERWEAVING OF HISTORICAL, ETHNOLOGICAL, AND TECHNOLOGICAL ANALYSIS. A BIBLIOGRAPHY IS

INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: UNIV. OF TEXAS PRESS, P.O. BOX 7819, AUSTIN, TX 78712 ($9.95)

IRIS ACCESSION NUMBER: EW002950

PUBLICATION DATE: SEP 77

TITLE: REUSE OF MUNICIPAL WASTEWATER FOR GROUNDWATER RECHARGE.

PERSONAL AUTHOR: SCHMIDT, CURTIS J.; AND OTHERS

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; MUNICIPALITIES; NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; *RESEARCH; *RECYCLING; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *GROUNDWATER; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 154P. ORDER NO. PB 272 620

ABSTRACT: THIS REPORT PROVIDES A COMPREHENSIVE SUMMARY AND EVALUATION OF CURRENT EFFORTS THROUGHOUT THE US TO RECHARGE GROUNDWATER SYSTEMS WITH TREATED MUNICIPAL WASTEWATER. STUDY METHODOLOGY AND RECOMMENDATIONS ARE DISCUSSED IN DETAIL. FIELD INVESTIGATION REPORTS OF TEN CURRENT OPERATIONS ARE INCLUDED IN THE APPENDICES FOR REFERENCE. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($8.00)

INSTITUTION NAME: MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI.

IRIS ACCESSION NUMBER: EW002951

PUBLICATION DATE: AUG 77

TITLE: PHYSICAL AND ENGINEERING PROPERTIES OF HAZARDOUS INDUSTRIAL WASTES AND SLUDGES.

PERSONAL AUTHOR: BARTOS, M. J. JR.; AND OTHERS

DESCRIPTOR: *APPLIED SCIENCE; CHEMICAL ANALYSIS; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; LAND USE; *POLLUTION; PUBLIC HEALTH; SOILS; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *INDUSTRIAL WASTES; *SLUDGE

DESCRIPTIVE NOTE: 90P. ORDER NO. PB 272 266

ABSTRACT: THIS REPORT PRESENTS THE RESULTS OF A LABORATORY TESTING PROGRAM TO INVESTIGATE THE PROPERTIES OF RAW AND CHEMICALLY FIXED HAZARDOUS INDUSTRIAL WASTES AND FLUE GAS DESULFURIZATION SLUDGES. THE STUDY METHODOLOGY AND RECOMMENDATIONS ARE DISCUSSED IN DETAIL. SPECIMENS OF RAW AND FIXED SLUDGES WERE SUBJECTED TO A VARIETY OF TESTS COMMONLY USED IN SOILS ENGINEERING. SELECTED FIXED SLUDGES WERE SUBJECTED TO ENGINEERING PROPERTIES TESTS AND DURABILITY TESTS. RESULTS SHOW THAT FIXING CAN CAUSE SIGNIFICANT CHANGES IN SLUDGE PROPERTIES AND THAT THESE PROPERTIES ARE PROCESS-DEPENDENT. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($6.00)

INSTITUTION NAME: MUNICIPAL ENVIRONMENTAL RES. LAB., CINCINNATI.

IRIS ACCESSION NUMBER: EW002952

PUBLICATION DATE: AUG 77

TITLE: THE CONTROL OF NITRATE AS A WATER POLLUTANT.

PERSONAL AUTHOR: SWOBODA, ALLEN R.

DESCRIPTOR: AGRICULTURAL PRODUCTION; ENVIRONMENTAL INFLUENCES; FERTILIZERS; LABORATORY TECHNIQUES; LAND USE; *PLANT GROWTH; *POLLUTION; *RESEARCH; *SOILS; *WATER POLLUTION CONTROL; *LEACHING; *NITRATES

DESCRIPTIVE NOTE: 154P. ORDER NO. PB 272 893

ABSTRACT: THIS REPORT PRESENTS THE FINDINGS OF A STUDY UNDERTAKEN TO DETERMINE EFFECTIVE WAYS FOR REDUCING NITRATE LEACHING IN SOILS. THE TIMING OF NITROGEN APPLICATION AND THE USE OF NITRIFICATION INHIBITORS ARE DISCUSSED AS EFFECTIVE MEASURES IN REDUCING LEACHING. EXAMPLES AND DATA ARE PROVIDED FOR THE PROCEDURES AND RESULTS UTILIZED DURING THE STUDY OF MICROBIAL IMMOBILIZATION, INHIBITORS, APPLICATIONS TO GRASSLAND WATERSHEDS, AND FIELD LYSIMETERS. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($8.00)

INSTITUTION NAME: ROBERT S. KERR ENVIRONMENTAL RESEARCH LAB.

IRIS ACCESSION NUMBER: EW002953

PUBLICATION DATE: SEP 77

TITLE: APPRAISAL OF POWDERED ACTIVATED CARBON PROCESSES FOR MUNICIPAL WASTEWATER TREATMENT.

PERSONAL AUTHOR: SHUCKROW, A. J.; AND OTHERS

DESCRIPTOR: *CHEMICAL REACTIONS; *COST EFFECTIVENESS; *ENVIRONMENTAL RESEARCH; MUNICIPALITIES; POLLUTION; PUBLIC HEALTH; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ACTIVATED CARBON; *OPERATIONS (WASTEWATER); RESEARCH REPORTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 360P. ORDER NO. PB 272 933

ABSTRACT: THIS REPORT DISCUSSES THE ROLE OF POWDERED ACTIVATED CARBON (PAC) IN THE TREATING OF MUNICIPAL WASTEWATERS. ALL WORK WITH PAC AND PAC REGENERATION WAS REVIEWED AND REPRESENTATIVE PROCESS APPROACHES SELECTED FOR COMPARISON WITH GRANULAR ACTIVATED CARBON. COMPARISONS ARE BASED ON FACTORS WHICH CONSIDER THE COST-BENEFIT RELATIONS AND THE INDIVIDUAL WASTEWATER TREATMENT FACILITIES. (CS)

AVAILABILITY: NTIS, 5285 PROT ROYAL RD., SPRINGFIELD, VA 22161 ($12.50)

INSTITUTION NAME: MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI.

IRIS ACCESSION NUMBER: EW002954

PUBLICATION DATE: SEP 77

TITLE: STORMWATER RUNOFF ON URBAN AREAS OF STEEP SLOPE.

PERSONAL AUTHOR: YEN, BEN CHIE; AND OTHERS

DESCRIPTOR: ENGINEERING; *ENVIRONMENTAL INFLUENCES; *HYDRAULICS; *MUNICIPALITIES; POLLUTION; PUBLIC HEALTH; *RESEARCH; URBAN STUDIES; *UTILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY; *WASTEWATER COLLECTION; *WATER RUNOFF

DESCRIPTIVE NOTE: 105P. ORDER NO. PB 272 755

ABSTRACT: THIS DOCUMENT REPORTS ON RESEARCH CONDUCTED TO INVESTIGATE THE APPLICABILITY OF COMMONLY USED URBAN STORM RUNOFF PREDICTION MODELS TO DRAINAGE BASINS WITH STEEP SLOPES. THE HYDRAULICS OF RUNOFF ON STEEP SLOPE AREAS IS FIRST REVIEWED AND ITS DIFFERENCE FROM THAT FOR MILD SLOPE AREAS IS DISCUSSED. NEXT THE DIFFICULTIES IN APPLYING COMMONLY USED METHODS TO STEEP SLOPE BASINS ARE PRESENTED. A SIMPLE APPROXIMATE METHOD SPECIFICALLY FOR STEEP SLOPE BASINS IS PROPOSED AND AN EXAMPLE IS PROVIDED. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($6.50)

IRIS ACCESSION NUMBER: EW002955

PUBLICATION DATE: AUG 77

TITLE: EVALUATION OF FLUIDIC COMBINED SEWER REGULATORS UNDER MUNICIPAL SERVICE CONDITIONS.

PERSONAL AUTHOR: FREEMAN, PETER A.

DESCRIPTOR: *COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; *HYDRAULICS; *MUNICIPALITIES; *POLLUTION; PUBLIC HEALTH; SANITATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER QUALITY; *OPERATIONS (WASTEWATER); *SEWERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 107P. ORDER NO. PB 272 273

ABSTRACT: THIS REPORT DESCRIBES A USEPA DEMONSTRATION PROGRAM IN WHICH A NOVEL COMBINED SEWER REGULATION CONCEPT IS EVALUATED UNDER MUNICIPAL SERVICE CONDITIONS. THIS CONCEPT USES FLUIDIC TECHNOLOGY TO GENERATE DYNAMIC REGULATION CHARACTERISTICS WITHOUT MECHANICAL MOVING ELEMENTS IN THE SEWAGE FLOW. THE REPORT DESCRIBES THE CHOSEN SITES, THE DESIRED REGULATION FUNCTIONS, DESIGN RATIONALE AND ANALYSES, AND CONSTRUCTION DETAILS. ADDITIONALLY, LABORATORY TESTS AND SITE CALIBRATIONS ARE DESCRIBED. TWO FLUIDIC REGULATORS ARE COMPARED IN DETAIL WITH EQUIVALENT CONVENTIONAL STATIC REGULATORS, FROM THE STANDPOINTS OF HYDRAULIC PERFORMANCE; SURVEILLANCE, MAINTENANCE AND REPAIR; AND INITIAL AND OPERATING COSTS. THE REPORT CONCLUDES WITH RECOMMENDATIONS FOR SYSTEM AND HARDWARE DESIGN IMPROVEMENTS. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($6.50)

INSTITUTION NAME: MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI.

IRIS ACCESSION NUMBER: EW002956

PUBLICATION DATE: JUL 76

TITLE: AN EXPLORATORY STUDY OF POSSIBLE ENERGY SAVINGS AS A RESULT OF WATER CONSERVATION PRACTICES.

PERSONAL AUTHOR: REID, GEORGE W.

DESCRIPTOR: *ANALYSIS; *CONSERVATION; CONSERVATION EDUCATION; *ECONOMICS; FLOW MEASUREMENT; *HOUSEHOLD PROBLEMS; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POST SECONDARY EDUCATION; WASTEWATER TREATMENT; *WATER RESOURCES; *WATER REUSE; *ENERGY; *WATER SUPPLY

DESCRIPTIVE NOTE: 144P. ORDER NO. PB 260 490

ABSTRACT: COMPARISONS ARE MADE OF 81 HOUSEHOLD WATER CONSERVATION DEVICES AND REUSE SYSTEMS WITH CONVENTIONAL WATER USE METHODS. THE AMOUNT OF WATER SAVED FROM EACH ALTERNATIVE IS CALCULATED, AND THE AMOUNT OF ENERGY INVOLVED AND THE ECONOMIC EFFECT OF EACH IS DETERMINED. A COST-EFFECTIVENESS ANALYSIS IS PRESENTED. THE CONSERVATION ALTERNATIVES ARE CHEMICAL TOILETS, LIMITING-FLOW VALVES FOR SHOWERS, REUSE OF WASTEWATER FOR TOILET FLUSHING, AND FRONT-LOADER WASHING MACHINES. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($7.25)

IRIS ACCESSION NUMBER: EW002957

ERIC ACCESSION NUMBER: ED151201

PUBLICATION DATE: 77

TITLE: UNDERSTANDING LOCAL ECOLOGY: SYLLABUS FOR MONITORING WATER QUALITY.

INSTITUTION CODE: JXQ38775

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: CHEMICAL ANALYSIS; ECOLOGY; *ELEMENTARY SECONDARY EDUCATION; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; SCIENCE ACTIVITIES; SCIENCE EDUCATION; *TEACHING GUIDES; *WATER POLLUTION CONTROL; *WATER RESOURCES; MONITORING; *SAMPLING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 43P.; CONTAINS OCCASIONAL HEAVY AND BLURRED PRINT

ISSUE: RIEJUL78

ABSTRACT: THIS SYLLABUS GIVES DETAILED INFORMATION ON MONITORING WATER QUALITY FOR TEACHERS AND STUDENTS. IT TELLS HOW TO SELECT A SAMPLE SITE; HOW TO MEASURE PHYSICAL CHARACTERISTICS SUCH AS TEMPERATURE, TURBIDITY, AND STREAM VELOCITY; HOW TO MEASURE CHEMICAL PARAMETERS SUCH AS ALKALINITY, DISSOLVED OXYGEN LEVELS, PHOSPHATE LEVELS, AND AMMONIA NITROGEN LEVELS; AND HOW TO SAMPLE PLANKTON COMMUNITIES. IN ADDITION, IT GIVES INFORMATION ON PURCHASING WATER QUALITY ANALYSIS KITS, DATA REPORTING, AND CONSTRUCTING AN ENVIRONMENTAL PROFILE. (BB)

INSTITUTION NAME: IOWA UNIV., IOWA CITY.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW002958

PUBLICATION DATE: SEP 76

TITLE: A SURVEY OF COMMERCIALLY AVAILABLE AUTOMATIC WASTEWATER SAMPLERS.

PERSONAL AUTHOR: LAUCH, RICHARD P.

DESCRIPTOR: *ANALYSIS; APPARATUS; *EQUIPMENT; *POLLUTION; *SAMPLING; *WASTEWATER COLLECTION; *WATER ANALYSIS; WATER POLLUTION CONTROL; *AUTOMATIC WASTEWATER SAMPLERS; *OPERATIONS (WASTEWATER)

DESCRIPTIVE NOTE: 42P. ORDER NO. PB 260 908

ABSTRACT: THIS IS A SURVEY OF COMMERCIAL AUTOMATIC WASTEWATER SAMPLERS THAT ARE CURRENTLY AVAILABLE. PERTINENT CHARACTERISTICS FOR WASTEWATER SAMPLERS KNOWN TO THE AUTHOR ARE TABULATED. ADDITIONAL COMMENTS INCLUDING SHORT DESCRIPTIONS OF EACH MANUFACTURER'S EQUIPMENT ARE GIVEN. MANUFACTURERS NAMES AND ADDRESSES ARE INCLUDED. A LITERATURE REVIEW OF THE MORE RECENT REPORTS ON AUTOMATIC WASTEWATER SAMPLERS IS ALSO INCLUDED. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

IRIS ACCESSION NUMBER: EW002959

ERIC ACCESSION NUMBER: ED148582

PUBLICATION DATE: JUL 76

TITLE: LABORATORY CONTROL FOR WASTEWATER FACILITIES, WASTEWATER TECHNOLOGY: A TWO-YEAR POST HIGH SCHOOL INSTRUCTIONAL PROGRAM. VOLUME III, PARTS A, B, C, D, E, F, G.

PERSONAL AUTHOR: WAGNER, DAVID; AND OTHERS

INSTITUTION CODE: BBB09266; BBB10105; BBB12691; UZ015525

SPONSORING AGENCY CODE: BBB12618

DESCRIPTOR: BEHAVIORAL OBJECTIVES; CURRICULUM; ENVIRONMENT; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$20.75 PLUS POSTAGE.

DESCRIPTIVE NOTE: 377P.; FOR RELATED DOCUMENTS, SEE SE 023 408-410 AND SE 023 432; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEMAY78

ABSTRACT: THIS VOLUME IS ONE IN A SERIES WHICH OUTLINES PERFORMANCE OBJECTIVES AND INSTRUCTIONAL MODULES FOR A COURSE OF STUDY WHICH EXPLAINS THE RELATIONSHIP AND FUNCTION OF THE PROCESS UNITS IN A WASTEWATER TREATMENT PLANT. EXAMPLES OF MODULES INCLUDE MEASURING SETTLEABLE MATTER, TOTAL SOLIDS, DISSOLVED SOLIDS, SUSPENDED SOLIDS, AND VOLATILE SOLIDS. THE MODULES ARE ARRANGED IN AN ORDER APPROPRIATE FOR TEACHING STUDENTS WITH NO EXPERIENCE. THEY CAN ALSO BE REARRANGED AND ADAPTED FOR COURSES TO UPGRADE PERSONNEL MOVING INTO SUPERVISORY POSITIONS OR DESIGNED AS A MINICOURSE. EACH MODULE CONTAINS A STATEMENT OF PURPOSE, OBJECTIVES, CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR ACTIVITY AND STUDENT ACTIVITY. THE TASKS ARE ORGANIZED IN THE GENERAL CATEGORIES: NORMAL OPERATIONS, ABNORMAL OPERATIONS, PREVENTIVE MAINTENANCE, CORRECTIVE MAINTENANCE, LABORATORY CONTROL, SYSTEMS INTERACTION, AND MANAGEMENT/SUPERVISORY PROCEDURES. INCLUDED IN THIS VOLUME ARE 29 MODULES. THE MODULES ARE DESIGNED TO TEACH THE STUDENT LABORATORY PROCEDURES FOR ANALYZING VARIOUS POLLUTANTS AND VARIABLES RELATED TO WASTEWATER. MOST STANDARD TESTS ARE INCLUDED. (CS)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.; CLEMSON UNIV., S.C.; GREENVILLE TECHNICAL COLL., S.C.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.

IRIS ACCESSION NUMBER: EW002960

ERIC ACCESSION NUMBER: ED148584

PUBLICATION DATE: NOV 76

TITLE: PROCESS INTERACTION FOR WASTEWATER FACILITIES, WASTEWATER TECHNOLOGY: A TWO-YEAR POST HIGH SCHOOL INSTRUCTIONAL PROGRAM. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS. VOLUME V.

PERSONAL AUTHOR: GEARHEART, ROBERT A.; AND OTHERS

INSTITUTION CODE: BBB09266; BBB10105; BBB12691; UZ015525

SPONSORING AGENCY CODE: BBB12618

DESCRIPTOR: BEHAVIORAL OBJECTIVES; CURRICULUM; EDUCATIONAL PROGRAMS; ENVIRONMENT; *ENVIRONMENTAL TECHNICIANS; FACILITIES; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 30P.; FOR RELATED DOCUMENTS, SEE SE 023 407-410 AND SE 023 432

ISSUE: RIEMAY78

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH OUTLINES PERFORMANCE OBJECTIVES AND INSTRUCTIONAL MODULES FOR A COURSE OF STUDY WHICH EXPLAINS THE RELATIONSHIPS AND FUNCTIONS OF THE PROCESS UNITS IN A WASTEWATER TREATMENT PLANT. THE MODULES ARE ARRANGED IN AN ORDER APPROPRIATE FOR TEACHING STUDENTS WITH NO EXPERIENCE. THE MODULES CAN ALSO BE REARRANGED AND ADAPTED FOR COURSES TO UPGRADE PERSONNEL MOVING INTO SUPERVISORY POSITIONS OR DESIGNED AS A MINICOURSE. EACH MODULE CONTAINS A STATEMENT OF PURPOSE, OBJECTIVES, CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR AND STUDENT ACTIVITY. THE TASKS ARE ORGANIZED INTO THE *GENERAL CATEGORIES OF: NORMAL OPERATION, ABNORMAL OPERATION,* PREVENTIVE MAINTENANCE, CORRECTIVE MAINTENANCE, LABORATORY CONTROL, SYSTEMS INTERACTION AND MANAGEMENT/SUPERVISORY PROCEDURES. THIS VOLUME INCLUDES FOUR MODULES: (1) TREATMENT PROVIDED BY PROCESS UNITS; (2) EFFECTS OF INDUSTRIAL WASTES ON OPERATIONS; (3) RELATIONSHIP OF PROCESS UNITS; AND (4) DEVELOPMENT OF FLOW DIAGRAMS. (CS)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.; CLEMSON UNIV., S.C.; GREENVILLE TECHNICAL COLL., S.C.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.

IRIS ACCESSION NUMBER: EW002961

ERIC ACCESSION NUMBER: ED148585

PUBLICATION DATE: NOV 76

TITLE: ADVANCED WASTE TREATMENT, WASTEWATER TECHNOLOGY: A TWO-YEAR POST HIGH SCHOOL INSTRUCTIONAL PROGRAM. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS. VOLUME VI.

PERSONAL AUTHOR: GEARHEART, ROBERT A.; AND OTHERS

INSTITUTION CODE: BBB09266; BBB10105; BBB12691; UZ015525

SPONSORING AGENCY CODE: BBB12618

DESCRIPTOR: BEHAVIORAL OBJECTIVES; CURRICULUM; EDUCATIONAL PROGRAMS; ENVIRONMENT; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 26P.; FOR RELATED DOCUMENTS, SEE SE 023 407-409 AND SE 023 432

ISSUE: RIEMAY78

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH OUTLINES PERFORMANCE OBJECTIVES AND INSTRUCTIONAL MODULES FOR A COURSE OF STUDY WHICH EXPLAINS THE RELATIONSHIP AND FUNCTIONS OF THE PROCESS UNITS IN A WASTEWATER TREATMENT PLANT. THE MODULES ARE ARRANGED IN ORDER APPROPRIATE FOR TEACHING STUDENTS WITH NO EXPERIENCE. THE MODULES CAN ALSO BE REARRANGED AND ADAPTED FOR COURSES TO UPGRADE PERSONNEL MOVING INTO SUPERVISORY POSITIONS OR DESIGNED AS A MINICOURSE. EACH MODULE CONTAINS A STATEMENT OF PURPOSE, OBJECTIVES, CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR AND STUDENT ACTIVITY. THE TASKS ARE ORGANIZED INTO THE GENERAL CATEGORIES OF: NORMAL OPERATION, ABNORMAL OPERATION, PREVENTIVE MAINTENANCE, CORRECTIVE MAINTENANCE, LABORATORY CONTROL, SYSTEMS INTERACTION, AND MANAGEMENT/SUPERVISORY PROCEDURES. THIS VOLUME INCLUDES SIX MODULES: (1) FUNCTION OF WATER TREATMENT PROCESSES; (2) PRINCIPAL WATER TREATMENT OPERATIONAL CHARACTERISTICS; (3) FUNCTION OF ADVANCED WASTEWATER TREATMENT PROCESSES; (4) PRINCIPAL ADVANCED WASTEWATER TREATMENT OPERATIONAL CHARACTERISTICS; (5) REMOVAL EFFICIENCIES; AND (6) COMPARISON OF TREATMENT PROCESSES. (CS)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.; CLEMSON UNIV., S.C.; GREENVILLE TECHNICAL COLL., S.C.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.

IRIS ACCESSION NUMBER: EW002962

ERIC ACCESSION NUMBER: ED148595

PUBLICATION DATE: APR 77

TITLE: INSTRUCTIONAL RESOURCES, WASTEWATER TECHNOLOGY: A TWO-YEAR POST HIGH SCHOOL INSTRUCTIONAL PROGRAM. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS. VOLUME VII.

PERSONAL AUTHOR: TAYLOR, BARBARA; AND OTHERS

INSTITUTION CODE: BBB09266; BBB10105; BBB12691; UZ015525

SPONSORING AGENCY CODE: BBB12618

DESCRIPTOR: BEHAVIORAL OBJECTIVES; CURRICULUM; EDUCATIONAL PROGRAMS; ENVIRONMENT; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; REFERENCE MATERIALS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 352P.; FOR RELATED DOCUMENTS, SEE SE 023 407-410; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEMAY78

ABSTRACT: THIS DOCUMENT PROVIDES INFORMATION ABOUT INSTRUCTIONAL RESOURCES WHICH COMPLEMENT A TWO-YEAR POST HIGH SCHOOL WASTEWATER TECHNOLOGY INSTRUCTIONAL PROGRAM. RESOURCES ARE IDENTIFIED BY SOURCE CODES, VOLUME AND MODULE IN WHICH THEY ARE USED, AND A NUMERICAL LISTING. THE DESCRIPTIONS INCLUDE TITLE, AUTHOR, SOURCE, MEDIA TYPE, APPLICATION CATEGORIES, SUBJECT AREA, EDUCATIONAL LEVEL, AND COST. POSSIBLE APPLICATION OF THE PROGRAM AND SCHEMATICS ARE PROVIDED IN THE LAST SECTION OF THE DOCUMENT. THE PROGRAM CRITERIA AND CURRICULUM GUIDELINES ARE AVAILABLE IN ADDITIONAL VOLUMES RELATED TO THIS PROGRAM. (CS)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.; CLEMSON UNIV., S.C.; GREENVILLE TECHNICAL COLL., S.C.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.

IRIS ACCESSION NUMBER: EW002964

ERIC ACCESSION NUMBER: ED148645

PUBLICATION DATE: 75

TITLE: NATIONAL WATER QUALITY INVENTORY, 1975 REPORT TO CONGRESS.

INSTITUTION CODE: BBB13327

DESCRIPTOR: CHEMICAL ANALYSIS; COST EFFECTIVENESS; *ENVIRONMENT; ENVIRONMENTAL INFLUENCES; *POLLUTION; *PUBLIC HEALTH; RURAL URBAN DIFFERENCES; STATE SURVEYS; *WATER POLLUTION CONTROL; WATER RESOURCES; *WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 152P.; FOR RELATED DOCUMENT, SEE SE 023 803

ISSUE: RIEMAY78

ABSTRACT: THIS DOCUMENT SUMMARIZES STATE SUBMISSIONS AND PROVIDES A NATIONAL OVERVIEW OF WATER QUALITY AS REQUESTED IN SECTION 305(B) OF THE 1972 FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS (P.L. 92-500). THIS REPORT PROVIDES THE FIRST OPPORTUNITY FOR STATES TO SUMMARIZE THEIR WATER QUALITY AND TO REPORT TO EPA AND CONGRESS. CHAPTERS OF THIS REPORT DEAL WITH CURRENT WATER QUALITY CONDITIONS, RECENT TRENDS IN WATER QUALITY, MAJOR POLLUTION PROBLEMS, FUTURE PROGRAM EMPHASIS, AND COSTS AND BENEFITS OF ACHIEVING THE 1983 GOALS. NUMEROUS TABLES AND FIGURES ARE PROVIDED TO SUPPLEMENT THE TEXT. ADDITIONALLY, THE APPENDICES PROVIDE REFERENCE INFORMATION CONCERNING THE NATIONAL WATER QUALITY SURVEILLANCE SYSTEM (NWQSS), THE NATIONAL EUTROPHICATION SURVEY (NES), AND STATE AGENCY ADDRESSES. (CS)

REPORT NUMBER: EPA-440/9-75-014

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002965

ERIC ACCESSION NUMBER: ED148646

PUBLICATION DATE: 76

TITLE: NATIONAL WATER QUALITY INVENTORY, 1976 REPORT TO CONGRESS.

INSTITUTION CODE: BBB13327

DESCRIPTOR: CHEMICAL ANALYSIS; COST EFFECTIVENESS; *ENVIRONMENT; ENVIRONMENTAL INFLUENCES; PESTICIDES; *POLLUTION; *PUBLIC HEALTH; STATE PROGRAMS; *WATER POLLUTION CONTROL; WATER RESOURCES; *WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$14.05 PLUS POSTAGE.

DESCRIPTIVE NOTE: 263P.; FOR RELATED DOCUMENT, SEE SE 023 802 ; SOME FIGURES ARE OF MARGINAL REPRODUCIBILITY

ISSUE: RIEMAY78

ABSTRACT: THIS REPORT SUMMARIZES THE STATE SUBMISSIONS AND PROVIDES A NATIONAL OVERVIEW OF WATER QUALITY AS REQUIRED IN SECTION 305(B) OF THE 1972 FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS (P.L. 92-500). TOPICS RECEIVING THE GREATEST COVERAGE INCLUDE TOXIC SUBSTANCES, QUANTITATIVE ASSESSMENTS OF THE PERCENTAGE OF WATERS CURRENTLY MEETING THE GOALS OF THE ACT AND THE PERCENTAGE EXPECTED TO MEET THOSE GOALS BY 1983, AND ANALYSIS OF THE EFFECTIVENESS OF CURRENT POLLUTION CONTROL PROGRAMS. SEPARATE SECTIONS OF THE DOCUMENT ARE DEVOTED TO ANALYSIS OF OIL SPILLS, THE WATER QUALITY OF THE GREAT LAKES, AND PROJECTED MUNICIPAL AND INDUSTRIAL COSTS ASSOCIATED WITH MEETING THE GOALS OF THE ACT. THE REPORT ALSO PRESENTS PROFILES OF 17 AREAS ACROSS THE COUNTRY WHERE POLLUTION CONTROL PROGRAMS HAVE SUCCEEDED IN REESTABLISHING SIGNIFICANT BENEFICIAL WATER USES. (CS)

REPORT NUMBER: EPA-440/9-76-024

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002966

ERIC ACCESSION NUMBER: ED149971

PUBLICATION DATE: 76

TITLE: CONDUCTING SANITARY SURVEYS OF WATER SUPPLY SYSTEMS. STUDENT WORKBOOK.

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *EDUCATIONAL PROGRAMS; EMPLOYMENT QUALIFICATIONS; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *LEARNING MODULES; OBJECTIVES; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *SANITATION; *WATER SUPPLY; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$23.43 PLUS POSTAGE.

DESCRIPTIVE NOTE: 442P.; CONTAINS LIGHT AND BROKEN TYPE THROUGHOUT APPENDIX 3.1, "EXAMPLES OF EVALUATION REPORTS" ; THE WORKBOOK WAS DEVELOPED BY NEW ENGLAND RESEARCH, INC.

ISSUE: RIEJUN78

ABSTRACT: THIS WORKBOOK IS UTILIZED IN CONNECTION WITH A 40-HOUR COURSE ON SANITARY SURVEYS OF WATER SUPPLY SYSTEMS FOR BIOLOGISTS, CHEMISTS, AND ENGINEERS WITH EXPERIENCE AS A WATER SUPPLY EVALUATOR. PRACTICAL TRAINING IS PROVIDED IN EACH OF THE 21 SELF-CONTAINED MODULES. EACH MODULE OUTLINES THE PURPOSE, OBJECTIVES AND CONTENT FOR THAT SECTION. THE COURSE STRESSES EVALUATION OF STRUCTURAL AND FUNCTIONAL COMPONENTS OF WATER SUPPLY SYSTEMS. STRUCTURAL COMPONENTS DISCUSSED INCLUDE THE PHYSICAL PLANT, OPERATIONS, MAINTENANCE, AND ADMINISTRATION. FUNCTIONAL COMPONENTS INCLUDE THE COLLECTION, TREATMENT, DISTRIBUTION AND CONTROL PHASES OF THESE SYSTEMS. (CS)

GRANT NUMBER: EPA-68-01-4239

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW002967

ERIC ACCESSION NUMBER: ED149972

PUBLICATION DATE: APR 74

TITLE: A MANUAL OF SIMPLIFIED LABORATORY METHODS FOR OPERATORS OF WASTEWATER TREATMENT FACILITIES.

PERSONAL AUTHOR: WESTERHOLD, ARNOLD F., ED.; BENNETT, ERNEST C., ED.

INSTITUTION CODE: BBB15276

DESCRIPTOR: CHEMISTRY; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; INDEPENDENT STUDY; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *LABORATORY TECHNIQUES; *POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 94P.; PAGES 1-1 THROUGH 1-12 (GENERAL INTRODUCTION) REMOVED DUE TO COPYRIGHT RESTRICTIONS; SECTION 8 MISSING; CONTAINS OCCASIONAL LIGHT TYPE; BEST COPY AVAILABLE

ISSUE: RIEJUN78

ABSTRACT: THIS MANUAL IS DESIGNED TO PROVIDE THE SMALL WASTEWATER TREATMENT PLANT OPERATOR, AS WELL AS THE NEW OR INEXPERIENCED OPERATOR, WITH SIMPLIFIED METHODS FOR LABORATORY ANALYSIS OF WATER AND WASTEWATER. IT IS EMPHASIZED THAT THIS MANUAL IS NOT A REPLACEMENT FOR STANDARD METHODS BUT A GUIDE FOR PLANTS WITH INSUFFICIENT EQUIPMENT TO PERFORM ANALYSES IN ACCORDANCE WITH STANDARD METHODS. EACH OF THE SECTIONS IS DESIGNED TO BE COMPLETE WITHIN ITSELF. THE TESTS AND MEASUREMENTS PRESENTED INCLUDE: ACIDS, BIOCHEMICAL OXYGEN DEMAND (BOD), DISSOLVED OXYGEN, RESIDUES, SLUDGE, AND SUSPENDED SOLIDS. (CS)

INSTITUTION NAME: ILLINOIS STATE ENVIRONMENTAL PROTECTION AGENCY, SPRINGFIELD.

IRIS ACCESSION NUMBER: EW002968

ERIC ACCESSION NUMBER: ED150020

PUBLICATION DATE: 77

TITLE: PROTECTING CREEKSHEDS: ANALYSIS AND ACTION.

PERSONAL AUTHOR: SAY, E. WAYNE; DINES, ALLEN J.

INSTITUTION CODE: BBB12767; BBB15283

DESCRIPTOR: *CITIZEN PARTICIPATION; CITY PLANNING; *ENVIRONMENT; LAND USE; *NATURAL RESOURCES; *URBANIZATION; WATER POLLUTION CONTROL; *WATER RESOURCES; *WATERSHEDS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 52P.; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJUN78

ABSTRACT: THIS BOOKLET IS DESIGNED TO PROVIDE BASIC INFORMATION ABOUT CREEKSHEDS IN URBANIZING AREAS; WHY THEY ARE IMPORTANT, HOW THEY ARE ADVERSELY AFFECTED BY URBANIZATION AND WHAT CAN BE DONE TO PROTECT CREEK BENEFITS AND AVOID PROBLEMS. THE TEXT PROVIDES NON-TECHNICAL INFORMATION RELATING TO SMALL WATERSHEDS AND THEIR MANAGEMENT. THE BOOKLET IS DESIGNED AS A SOURCE BOOK FOR THOSE WITH AN INTEREST IN BUT NO EXPERIENCE WITH WATER RESOURCE PROBLEMS. A GLOSSARY OF RELATED TERMS AND A BIBLIOGRAPHY ARE INCLUDED FOR REFERENCE. (CS)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON,

).C. OFFICE OF WATER RESEARCH AND TECHNOLOGY.; HURON RIVER ATERSHED COUNCIL, ANN ARBOR, MICH.

IRIS ACCESSION NUMBER: EW002969

.RIC ACCESSION NUMBER: ED149999

'UBLICATION DATE: AUG 73

ITLE: WASTEWATER TREATMENT AND REUSE BY LAND APPLICATION, 'OLUME I - SUMMARY.

'ERSONAL AUTHOR: POUND, CHARLES E.; CRITES, RONALD W.

.NSTITUTION CODE: BBB06757

)ESCRIPTOR: *ENVIRONMENTAL CRITERIA; *LAND USE; *POLLUTION; 'UBLIC HEALTH; RECYCLING; *RESEARCH; SANITATION; SURVEYS; 'WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER 'REATMENT; *LAND APPLICATION

.DRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

)ESCRIPTIVE NOTE: 96P.; FOR VOLUME II, SEE SE 023 900; .ONTAINS SMALL PRINT IN TABLES

SSUE: RIEJUN78

ABSTRACT: THIS REPORT IS INCLUDED IN THE ENVIRONMENTAL 'ROTECTION AGENCY'S (EPA) ENVIRONMENTAL PROTECTION ECHNOLOGY SERIES WHICH DESCRIBES RESEARCH PERFORMED TO EVELOP AND DEMONSTRATE INSTRUMENTATION, EQUIPMENT AND ETHODOLOGY TO REPAIR OR PREVENT ENVIRONMENTAL DEGRADATION ROM POINT AND NON-POINT SOURCES OF POLLUTION. THIS DOCUMENT S A SUMMARY OF A NATIONWIDE STUDY TO DETERMINE THE CURRENT NOWLEDGE AND TECHNIQUES OF LAND APPLICATION OF MUNICIPAL REATMENT PLANT EFFLUENTS AND INDUSTRIAL WASTEWATERS. PECIFIC APPLICATION TECHNIQUES ADDRESSED INCLUDE RRIGATION, OVERLAND FLOW AND INFILTRATION - PERCOLATION OF NDUSTRIAL AND MUNICIPAL WASTEWATER. ADDITIONAL SECTIONS OF HIS REPORT DEAL WITH WASTEWATER AND SITE CHARACTERISTICS, YSTEM DESIGN AND OPERATION, ENVIRONMENTAL EFFECTS, PUBLIC EALTH CONSIDERATIONS, AND COST EVALUATION. A BIBLIOGRAPHY ND GLOSSARY OF TERMS ARE INCLUDED. (CS)

REPORT NUMBER: EPA-660/2-73-006A

CONTRACT NUMBER: EPA-68-01-0741

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT 'RINTING OFFICE, WASHINGTON, D.C. 20402 ($1.10)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, 'ASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.

IRIS ACCESSION NUMBER: EW002970

ERIC ACCESSION NUMBER: ED150010

'UBLICATION DATE: AUG 77

ITLE: REPORT ON PILOT TEST OF STATE AGENCY MANPOWER 'LANNING METHODOLOGY, TEXAS WATER QUALITY BOARD CONSTRUCTION GRANTS SECTION.

INSTITUTION CODE: BBB15320

)ESCRIPTOR: *EDUCATIONAL NEEDS; ENVIRONMENT; *MANPOWER)EVELOPMENT; *MANPOWER NEEDS; POLLUTION; RESEARCH; RESEARCH METHODOLOGY; *STATE AGENCIES; *SURVEYS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

)ESCRIPTIVE NOTE: 89P.; FOR RELATED DOCUMENTS, SEE SE 023 891-892; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJUN78

ABSTRACT: THIS REPORT PRESENTS THE RESULTS OF A PILOT TEST BY THE TEXAS WATER QUALITY BOARD (TWQB) OF A MANPOWER 'LANNING METHODOLOGY DEVELOPED BY THE U.S. ENVIRONMENTAL 'ROTECTION AGENCY (EPA), OFFICE OF WATER PROGRAMS. PROJECT 'UTPUTS ARE DESCRIBED AND ILLUSTRATED IN SECTIONS OF THE REPORT DEALING WITH WORK TO BE DONE, ORGANIZATIONAL STAFFING PLAN, TRANSFERS AND NEW HIRES NEEDED, TRAINING NEEDS ESTIMATE AND IDENTIFICATION OF MANPOWER PROBLEMS. INCLUDED ARE AN ANALYSIS OF THE FINDINGS AND AN ASSESSMENT OF THE COSTS AND BENEFITS OF THIS TYPE OF EFFORT. RECOMMENDATIONS FOR FURTHER ACTION ARE PRESENTED. THE APPENDICES INCLUDE MANY TABLES AND FIGURES. (CS)

INSTITUTION NAME: TEXAS STATE DEPT. OF WATER RESOURCES, 'USTIN.

IRIS ACCESSION NUMBER: EW002971

ERIC ACCESSION NUMBER: ED150011

PUBLICATION DATE: SEP 77

TITLE: MANPOWER PLANNING CRITERIA MANUAL, CONSTRUCTION GRANTS SECTION.

INSTITUTION CODE: BBB15320

)ESCRIPTOR: *EDUCATIONAL PROGRAMS; ENVIRONMENT; ENVIRONMENTAL TECHNICIANS; *LABOR FORCE; *MANPOWER)EVELOPMENT; *MANPOWER NEEDS; *POLLUTION; RESEARCH; RESEARCH METHODOLOGY; STATE AGENCIES; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

)ESCRIPTIVE NOTE: 80P.; FOR RELATED DOCUMENTS, SEE SE 023 890-892; NOT AVAILABLE IN HARD COPY DUE TO PRINT QUALITY

ISSUE: RIEJUN78

ABSTRACT: THIS DOCUMENT PRESENTS THE MATERIAL DEVELOPED IN CONJUNCTION WITH A PROJECT DIRECTED TO TEST A METHODOLOGY THAT A STATE WATER POLLUTION CONTROL AGENCY CAN USE IN DETERMINING ITS MANPOWER AND TRAINING NEEDS. INCLUDED IS A COMPILATION OF THE MANPOWER PLANNING CRITERIA USED TO RELATE NUMBERS AND TYPES OF PERSONNEL WITH DEFERRED WORKLOADS. IT ALSO PROVIDES GUIDANCE FOR APPLICATION OF THE CRITERIA IN ASSESSING MANPOWER AND TRAINING NEEDS AND INCORPORATING THESE NEEDS INTO THE BUDGET AND PLANNING PROCESS. (CS)

INSTITUTION NAME: TEXAS STATE DEPT. OF WATER RESOURCES, AUSTIN.

IRIS ACCESSION NUMBER: EW002972

ERIC ACCESSION NUMBER: ED150012

PUBLICATION DATE: DEC 77

TITLE: MANPOWER PLANNING FOR MUNICIPAL WASTEWATER TREATMENT IN TEXAS, LP-8.

INSTITUTION CODE: BBB15320

DESCRIPTOR: *EDUCATIONAL PROGRAMS; ENVIRONMENT; ENVIRONMENTAL TECHNICIANS; *LABOR FORCE; MANPOWER DEVELOPMENT; *MANPOWER NEEDS; *POLLUTION; RESEARCH; *RESEARCH METHODOLOGY; STATE AGENCIES; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 209P.; FOR RELATED DOCUMENTS, SEE SE 023 890-891; NOT AVAILABLE IN HARD COPY DUE TO PRINT QUALITY

ISSUE: RIEJUN78

ABSTRACT: THIS REPORT PRESENTS THE IMPLEMENTATION RESULTS OF A PILOT TEST OF A MANPOWER PLANNING METHODOLOGY DEVELOPED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), OFFICE OF WATER PROGRAMS. PROJECT OUTPUTS AND PROJECTIONS ARE DESCRIBED AND ILLUSTRATED IN SECTIONS OF THE REPORT DEALING WITH WORK TO BE DONE, ORGANIZATIONAL STAFFING PLAN, TRANSFERS AND NEW HIRES NEEDED, TRAINING NEEDS AND IDENTIFICATION OF MANPOWER PROBLEMS. THE STUDY PROVIDED A DATA BASE OF MANPOWER NEEDS AND CURRENT STAFF; THIS INFORMATION CAN SERVE AS A BASIS FOR FUTURE PLANNING AND FOR EVALUATION OF PLANS THAT ARE MADE. (CS)

INSTITUTION NAME: TEXAS STATE DEPT. OF WATER RESOURCES, AUSTIN.

IRIS ACCESSION NUMBER: EW002973

ERIC ACCESSION NUMBER: ED150013

PUBLICATION DATE: AUG 73

TITLE: WASTEWATER TREATMENT AND REUSE BY LAND APPLICATION, VOLUME II.

PERSONAL AUTHOR: POUND, CHARLES E.; CRITES, RONALD W.

INSTITUTION CODE: BBB06757

DESCRIPTOR: COSTS; *ENVIRONMENTAL CRITERIA; *LAND USE; *POLLUTION; PUBLIC HEALTH; RECYCLING; *RESEARCH; SANITATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *LAND APPLICATION

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 263P.; FOR VOLUME I, SEE SE 023 736; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJUN78

ABSTRACT: THIS REPORT IS INCLUDED IN THE ENVIRONMENTAL PROTECTION AGENCY'S (EPA) ENVIRONMENTAL PROTECTION TECHNOLOGY SERIES WHICH DESCRIBES RESEARCH PERFORMED TO DEVELOP AND DEMONSTRATE INSTRUMENTATION, EQUIPMENT AND METHODOLOGY. THIS WORK PROVIDES THE NEW OR IMPROVED TECHNOLOGY REQUIRED FOR THE CONTROL AND TREATMENT OF POLLUTION SOURCES TO MEET ENVIRONMENTAL QUALITY STANDARDS. SPECIFIC APPLICATION TECHNIQUES ADDRESSED INCLUDE IRRIGATION, OVERLAND FLOW AND INFILTRATION - PERCOLATION OF INDUSTRIAL AND MUNICIPAL WASTEWATER. OTHER SECTIONS OF THIS REPORT DEAL WITH WASTEWATER AND SITE CHARACTERISTICS, SYSTEM DESIGN AND OPERATION, ENVIRONMENTAL EFFECTS, PUBLIC HEALTH CONSIDERATIONS, AND COST EVALUATION. A BIBLIOGRAPHY AND GLOSSARY OF TERMS ARE INCLUDED. (CS)

REPORT NUMBER: EPA-660/2-73-006B

CONTRACT NUMBER: EPA-68-01-0741

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($2.40)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.

IRIS ACCESSION NUMBER: EW002974

ERIC ACCESSION NUMBER: ED151160

PUBLICATION DATE: 76

TITLE: NEEDED: CLEAN WATER. PROBLEMS OF POLLUTION.

INSTITUTION CODE: BBB06039

DESCRIPTOR: CONSERVATION (ENVIRONMENT); *ENVIRONMENTAL EDUCATION; *POLLUTION; RECYCLING; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 15P.

ISSUE: RIEJUL78

ABSTRACT: THIS PAMPHLET UTILIZES ILLUSTRATIONS AND CAPTIONS TO INDICATE THE DEMANDS CURRENTLY MADE ON OUR WATER RESOURCES AND THE PROBLEMS ASSOCIATED WITH THAT DEMAND. CURRENT AND FUTURE SOLUTIONS ARE DESCRIBED WITH SUGGESTIONS FOR PERSONAL CONSERVATION EFFORTS TO HELP PROVIDE ENOUGH CLEAN WATER FOR EVERYONE IN THE FUTURE. (CS)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OHIO 43212 (ON LOAN)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW002975

ERIC ACCESSION NUMBER: ED151162

PUBLICATION DATE: 73

TITLE: MANPOWER PLANNING FOR WASTEWATER TREATMENT PLANTS.

PERSONAL AUTHOR: DAVIES, J. KENNETH; AND OTHERS

INSTITUTION CODE: BBB06352

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; HUMAN DEVELOPMENT; *INSTRUCTIONAL DESIGN; LABOR SUPPLY; *MANPOWER NEEDS; POLLUTION; *PROGRAM PLANNING; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTER WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 211P.; CONTAINS SMALL, LIGHT AND BROKEN TYPE IN TABLES

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT DISCUSSES THE COMPONENTS NECESSARY IN THE DEVELOPMENT OF A FORECASTING PROCESS BY WHICH MANPOWER NEEDS CAN BE DETERMINED AND THE DEVELOPMENT OF ACTION PROGRAMS BY WHICH THE PROJECTED NEEDS MAY BE SATISFIED. THE PRIMARY FOCUS OF THIS MANUAL IS DIRECTED AT THAT PERSON IN A STATE AGENCY WHO HAS THE RESPONSIBILITY FOR PLANNING THE MANPOWER AND TRAINING REQUIREMENTS OF MUNICIPAL WASTEWATER TREATMENT PLANTS. DISCUSSION WITHIN THIS MANUAL DEALS WITH THE PRINCIPLES OF MANPOWER PLANNING, DEVELOPMENT OF A WATER POLLUTION CONTROL PROGRAM, HUMAN RESOURCE DEVELOPMENT, MANPOWER PLANNING AND APPLIED MANPOWER PLANNING FOR MUNICIPAL WASTEWATER TREATMENT PLANTS. (CS)

INSTITUTION NAME: OLYMPUS RESEARCH CORP., SALT LAKE CITY, UTAH.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW002976

ERIC ACCESSION NUMBER: ED151214

PUBLICATION DATE: SEP 77

TITLE: WASTE STABILIZATION PONDS. TRAINING MODULE 2.100.1.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); STABILIZATION LAGOONS; WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 111P.; FOR RELATED DOCUMENTS, SEE SE 024 026-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE DESIGNED IN THE OBJECTIVE FORMAT FOR USE BY AN INSTRUCTOR FAMILIAR WITH LAGOON OPERATION. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS BASIC CONCEPTS OF DESIGN, OPERATION AND MAINTENANCE, LOADING AND DETENTION TIME CALCULATIONS, SERIES AND PARALLEL FLOW AND FILL AND DRAW OPERATION. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002977

ERIC ACCESSION NUMBER: ED151215

PUBLICATION DATE: SEP 77

TITLE: PRE-TREATMENT. TRAINING MODULE 2.102.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTWATER); *WASTEWATER TREATMENT; *PRETREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 124P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; PAGES 10 AND 11 REMOVED DUE TO MARGINAL LEGIBILITY; PAGE 121 MISSING FROM DOCUMENT PRIOR TO BEING SHIPPED TO EDRS FOR FILMING; BEST COPY AVAILABLE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE DESIGNED IN THE OBJECTIVE FORMAT FOR USE BY AN INSTRUCTOR FAMILIAR WITH PRE-TREATMENT UNIT OPERATION. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDE, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS DESIGN, OPERATION, MAINTENANCE, AND SAFETY OF COMMON METHODS OF GRIT REMOVAL, SCREENING, GRINDING, FLOTATION AND PREAERATION. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002978

ERIC ACCESSION NUMBER: ED151216

PUBLICATION DATE: SEP 77

TITLE: SEDIMENTATION. TRAINING MODULE 2.105.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDAR EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS O STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *SEDIMENTATION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 103P.; FOR RELATED DOCUMENTS, SEE SE 02 025-047; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH OPERATION AND MAINTENANCE OF PRIMARY AND SECONDARY WASTEWATER TREATMENT SEDIMENTATION UNITS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS PURPOSES, FUNCTIONS, COMPONENTS, DESIGN CRITERIA, OPERATION, MAINTENANCE AND SAFETY. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002979

ERIC ACCESSION NUMBER: ED151217

PUBLICATION DATE: SEP 77

TITLE: BASIC TRICKLING FILTERS. TRAINING MODULE 2.110.2.77.

PERSONAL AUTHOR: LAYTON, RONALD F.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); *TRICKLING FILTERS; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 140P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH OPERATION AND MAINTENANCE OF A TRICKLING FILTER WASTEWATER TREATMENT SYSTEM. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE FIRST LEVEL OF A THREE MODULE SERIES AND CONSIDERS THE PURPOSE, USE, COMPONENTS, OPERATION AND MAINTENANCE, AND EXPECTED PERFORMANCE OF A TRICKLING FILTER SYSTEM. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002980

ERIC ACCESSION NUMBER: ED151218

PUBLICATION DATE: SEP 77

TITLE: INTERMEDIATE TRICKLING FILTERS. TRAINING MODULE 2.111.3.77.

PERSONAL AUTHOR: LAYTON, RONALD F.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); *TRICKLING FILTERS; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 148P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

BSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE REPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR ITH OPERATION AND MAINTENANCE OF A TRICKLING FILTER ASTEWATER TREATMENT PLANT. INCLUDED ARE OBJECTIVES, NSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY ASTERS. THIS IS THE SECOND LEVEL OF A THREE MODULE SERIES ND CONSIDERS TYPES OF FILTERS, FILTER LOADINGS, ECIRCULATION RATIOS, DESIGN EVALUATION AND NORMAL AND BNORMAL CONDITIONS. REFERENCES NEEDED ARE LISTED ON THE UMMARY PAGES AT THE FIRST OF THE MODULE. (AUTHOR/RH)

PONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, .C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

RIS ACCESSION NUMBER: EW002981

RIC ACCESSION NUMBER: ED151219

UBLICATION DATE: SEP 77

ITLE: ADVANCED TRICKLING FILTERS. TRAINING MODULE .112.4.77.

ERSONAL AUTHOR: LAYTON, RONALD F.

PONSORING AGENCY CODE: BBB15379; FGK21436

ESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY DUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF TUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); TRICKLING FILTERS; *WASTEWATER TREATMENT

DRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

ESCRIPTIVE NOTE: 64P.; FOR RELATED DOCUMENTS, SEE SE 024 25-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE; CHARTS ARGINALLY LEGIBLE; REMOVED EPA FORMS 7500-5 PAGES 1, 2, 4, , 6 DUE TO MARGINAL LEGIBILITY

SSUE: RIEJUL78

BSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE REPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR ITH OPERATION AND MAINTENANCE OF A TRICKLING FILTER ASTEWATER TREATMENT PLANT. INCLUDED ARE OBJECTIVES, NSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY ASTERS. THIS IS THE THIRD LEVEL OF A THREE MODULE SERIES ND CONSIDERS TROUBLESHOOTING, OPERATION AND MAINTENANCE, ANPOWER NEEDS, LABORATORY EQUIPMENT NEEDS, SECONDARY EDIMENTATION AND SLUDGE DISPOSAL PROBLEMS. (AUTHOR/RH)

PONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, .C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

RIS ACCESSION NUMBER: EW002982

RIC ACCESSION NUMBER: ED151220

UBLICATION DATE: SEP 77

ITLE: BASIC ACTIVATED SLUDGE. TRAINING MODULE 2.115.2.77.

NSTITUTION CODE: BBB08399

PONSORING AGENCY CODE: BBB15379; FGK21436

ESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY DUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF TUDY; *WATER POLLUTION CONTROL; *ACTIVATED SLUDGE; PERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

ESCRIPTIVE NOTE: 93P.; FOR RELATED DOCUMENTS, SEE SE 024 25-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

SSUE: RIEJUL78

BSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE REPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR ITH OPERATION OF ACTIVATED SLUDGE WASTEWATER TREATMENT LANTS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT ANDOUTS, AND TRANSPARENCY MASTERS. THIS IS THE FIRST OF A HREE MODULE SERIES AND CONSIDERS DEFINITION OF TERMS, ESIGN AND OPERATION PARAMETERS, PROCESS OBSERVATIONS, BASIC ROCESS CONTROLS AND CONTROL TESTS. (AUTHOR/RH)

NSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, OWA.

PONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, .C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002983

ERIC ACCESSION NUMBER: ED151221

UBLICATION DATE: SEP 77

ITLE: INTERMEDIATE ACTIVATED SLUDGE. TRAINING MODULE .116.3.77.

INSTITUTION CODE: BBB08399

PONSORING AGENCY CODE: BBB15379; FGK21436

ESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY DUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF TUDY; *WATER POLLUTION CONTROL; *ACTIVATED SLUDGE; PERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

ESCRIPTIVE NOTE: 89P.; FOR RELATED DOCUMENTS, SEE SE 024 25-047; PAGE 81 MISSING FROM DOCUMENT PRIOR TO BEING HIPPED TO EDRS FOR FILMING; BEST COPY AVAILABLE

SSUE: RIEJUL78

BSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE REPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR ITH OPERATION OF ACTIVATED SLUDGE WASTEWATER TREATMENT PLANTS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE SECOND LEVEL OF A THREE MODULE SERIES AND CONSIDERS AERATION DEVICES, PROCESS CONTROL PROCEDURES, MICROORGANISMS AND DATA TREND CHART PLOTTING. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002984

ERIC ACCESSION NUMBER: ED151222

PUBLICATION DATE: SEP 77

TITLE: ADVANCED ACTIVATED SLUDGE. TRAINING MODULE 2.117.4.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; *ACTIVATED SLUDGE; OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 111P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS SMALL TYPE IN FIGURES

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH OPERATION OF ACTIVATED SLUDGE WASTEWATER TREATMENT PLANTS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE THIRD LEVEL OF A THREE MODULE SERIES AND CONSIDERS DESIGN AND OPERATION PARAMETERS, PROCESS CONTROL PROCEDURES, INTERPRETATION OF TREND CHART DATA AND THE OXYGEN UPTAKE TEST. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002985

ERIC ACCESSION NUMBER: ED151223

PUBLICATION DATE: SEP 77

TITLE: BASIC ROTATING BIOLOGICAL SURFACE OPERATION. TRAINING MODULE 2.120.2.77.

PERSONAL AUTHOR: PAULSON, W. L.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); *TRICKLING FILTERS; *WASTEWATER TREATMENT; *ROTATING BIOLOGICAL SURFACE SYSTEMS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 59P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH OPERATION AND MAINTENANCE OF ROTATING BIOLOGICAL SURFACE (RBS) WASTEWATER TREATMENT SYSTEMS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE FIRST LEVEL OF A THREE MODULE SERIES. THE MODULE CONSIDERS PURPOSE, FUNCTIONS, FACTORS AFFECTING PROCESS, PROCESS CONTROL AND OPERATION AND MAINTENANCE OF A RBS SYSTEM. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002986

ERIC ACCESSION NUMBER: ED151224

PUBLICATION DATE: SEP 77

TITLE: INTERMEDIATE ROTATING BIOLOGICAL SURFACE OPERATION. TRAINING MODULE 2.121.3.77.

PERSONAL AUTHOR: PAULSON, W. L.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER; *TRICKLING FILTERS; *WASTER WATER TREATMENT; *ROTATING BIOLOGICAL SURFACE SYSTEMS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 61P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH OPERATION AND MAINTENANCE OF ROTATING BIOLOGICAL SURFACE (RBS) WASTEWATER TREATMENT SYSTEMS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND

TRANSPARENCY MASTERS. THIS IS THE SECOND LEVEL OF A THREE MODULE SERIES. THE MODULE CONSIDERS THE ROLE AND FUNCTION OF THE RBS UNIT, FACTORS AFFECTING UNIT PERFORMANCE, SOLUTIONS TO ADVERSE SITUATIONS, DESIGN APPROACHES, MAINTENANCE AND REPORTING REQUIREMENTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002987

ERIC ACCESSION NUMBER: ED151225

PUBLICATION DATE: SEP 77

TITLE: ADVANCED ROTATING BIOLOGICAL SURFACE OPERATION. TRAINING MODULE 2.122.4.77.

PERSONAL AUTHOR: PAULSON, W. L.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *WATER POLLUTION CONTROL; OPERATIONS (WASTEWATER); *TRICKLING FILTERS; *WASTEWATER TREATMENT; *ROTATING BIOLOGICAL SURFACE SYSTEMS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 55P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; PAGE 41 "BIO DISC SYSTEM SHRINKS BOD 90%" REMOVED PRIOR TO BEING SHIPPED TO EDRS DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: R1EJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH OPERATION AND MAINTENANCE OF A ROTATING BIOLOGICAL SURFACE (RBS) WASTEWATER TREATMENT SYSTEM. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS IS THE THIRD LEVEL OF A THREE MODULE SERIES AND CONSIDERS THE BIOLOGY AND BIOCHEMISTRY OF BIOCHEMICAL OXYGEN DEMAND (BOD), REDUCTION AND NITRIFICATION IN THE RBS PROCESS, SYSTEM APPLICATIONS, PROCESS PERFORMANCE AND MEASURES TO ASSURE PROPER PLANT PERFORMANCE. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002988

ERIC ACCESSION NUMBER: ED151226

PUBLICATION DATE: SEP 77

TITLE: WATER SUPPLY--WELLS, TRAINING MODULE 2.200.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; OPERATIONS (WATER); *WATER WELLS; *WATER SUPPLY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 173P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS MARGINAL LEGIBILITY IN GRAPHS

ISSUE: R1EJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH GROUNDWATER, GENERAL WELL DESIGN AND CONSTRUCTION, BASIC WELL MAINTENANCE, COLLECTION OF WELL PERFORMANCE DATA, USE OF DATA IN EVALUATING WELL PERFORMANCE AND IDENTIFYING BASIC WELL PROBLEMS, AND WELL SYSTEM ANALYSIS. THE MODULE IS DIVIDED INTO THREE SUBMODULES; WELL TECHNOLOGY AND BASIC MAINTENANCE, EVALUATION OF WELL PERFORMANCE, AND WELL MANAGEMENT. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002989

ERIC ACCESSION NUMBER: ED151227

PUBLICATION DATE: SEP 77

TITLE: BASIC ION EXCHANGE SOFTENING. TRAINING MODULE 2.210.2.77.

PERSONAL AUTHOR: MCMULLEN, L. D.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; ION EXCHANGE; *OPERATIONS (WATER); *WATER TREATMENT; *WATER SOFTENING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 64P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE; TRANSPARENCY 16 REMOVED DUE TO COPYRIGHT RESTRICTIONS

ISSUE: R1EJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH ION EXCHANGE SOFTENING. IT INCLUDES OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS IS THE FIRST LEVEL OF A THREE MODULE SERIES. THE MODULE CONSIDERS THE PRINCIPLES, COMPONENTS, OPERATION, MAINTENANCE, LABORATORY CONTROL AND SAFETY FOR ION EXCHANGE SOFTENING UNITS. IT IS DESIGNED FOR INDIVIDUALS WITH LITTLE OR NO OPERATING EXPERIENCES. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002990

ERIC ACCESSION NUMBER: ED151228

PUBLICATION DATE: SEP 77

TITLE: INTERMEDIATE ION EXCHANGE SOFTENING. TRAINING MODUL 2.211.3.77.

PERSONAL AUTHOR: MCMULLEN, L. D.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDAR EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS O STUDY; OPERATIONS (WATER); WATER; *WATER TREATMENT; *IO EXCHANGE; *WATER SOFTENING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 60P.; FOR RELATED DOCUMENTS, SEE SE 02 025-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: R1EJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAG PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIA WITH THE OPERATION OF AN ION EXCHANGE SOFTENING SYSTEM. I INCLUDES OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE SECOND LEVEL OF THREE MODULE SERIES. THE MODULE CONSIDERS OPERATION AN MAINTENANCE, TROUBLE SHOOTING PROCESS PROBLEMS, AND IO EXCHANGE SOFTENER DESIGN. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES

IRIS ACCESSION NUMBER: EW002991

ERIC ACCESSION NUMBER: ED151229

PUBLICATION DATE: SEP 77

TITLE: ADVANCED ION EXCHANGE SOFTENING. TRAINING MODUL 2.212.4.77.

PERSONAL AUTHOR: MCMULLEN, L. D.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDAR EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS O STUDY; ION EXCHANGE; OPERATIONS (WATER); WATER; *WATE TREATMENT; *WATER SOFTENING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 55P.; FOR RELATED DOCUMENTS, SEE SE 02 025-047; CONTAINS NUMEROUS LIGHT AND BROKEN TYPE TRANSPARENCIES 15-20 REMOVED DUE TO COPYRIGHT RESTRICTIONS

ISSUE: R1EJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAG PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIA WITH THE OPERATION OF AN ION EXCHANGE SOFTENING SYSTEM. I INCLUDES OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUT AND TRANSPARENCY MASTERS. THIS IS THE THIRD LEVEL OF A THRE MODULE SERIES. THIS MODULE CONSIDERS THE THEORY OF IO EXCHANGE, INTERPRETATION AND APPLICATION OF LABORATORY DAT FOR OPTIMAL OPERATION OF AN ION EXCHANGE UNIT AND LABORATOR EVALUATION OF RESINS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES

IRIS ACCESSION NUMBER: EW002992

ERIC ACCESSION NUMBER: ED151230

PUBLICATION DATE: SEP 77

TITLE: BASIC CHEMICAL PRECIPITATION SOFTENING. TRAININ MODULE 2.215.2.77.

PERSONAL AUTHOR: MCMULLEN, L. D.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION *TEACHING GUIDES; UNITS OF STUDY; OPERATIONS (WATER); WATER *WATER TREATMENT; *WATER SOFTENING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 74P.; FOR RELATED DOCUMENTS, SEE SE 02 025-047; CONTAINS NUMEROUS LIGHT AND BROKEN TYPE; TRANSPARENCY 20 REMOVED DUE TO COPYRIGHT RESTRICTIONS

ISSUE: R1EJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAG PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIA WITH CHEMICAL PRECIPITATION SOFTENING. INCLUDED AR OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS AN TRANSPARENCY MASTERS. THIS IS THE FIRST LEVEL OF A THRE MODULE SERIES AND IS DESIGNED FOR STUDENTS WITH LITTLE OR N OPERATING EXPERIENCE. THE MODULE CONSIDERS THE PRINCIPLES COMPONENTS, OPERATION, MAINTENANCE, LABORATORY CONTROL AN SAFETY FOR CHEMICAL PRECIPITATION SOFTENING SYSTEMS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002993

ERIC ACCESSION NUMBER: ED151231

PUBLICATION DATE: SEP 77

TITLE: INTERMEDIATE CHEMICAL PRECIPITATION SOFTENING. TRAINING MODULE 2.216.3.77.

PERSONAL AUTHOR: MCMULLEN, L. D.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; OPERATIONS (WATER; WATER; *WATER TREATMENT; *WATER SOFTENING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 66P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS NUMEROUS LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE OPERATION AND MAINTENANCE OF A CHEMICAL PRECIPITATION SOFTENING SYSTEM. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE SECOND LEVEL OF A THREE MODULE SERIES. THE MODULE CONSIDERS CHEMICAL DOSAGES, ECONOMICAL OPERATION, TROUBLESHOOTING PROCESS PROBLEMS, AND EVALUATION OF SOFTENER DESIGN. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002994

ERIC ACCESSION NUMBER: ED151232

PUBLICATION DATE: SEP 77

TITLE: ADVANCED CHEMICAL PRECIPITATION SOFTENING. TRAINING MODULE 2.217.4.77.

PERSONAL AUTHOR: MCMULLEN, L. D.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; OPERATIONS (WATER); WATER; *WATER TREATMENT; *WATER SOFTENING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 43P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS NUMEROUS LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE OPERATION AND MAINTENANCE OF A CHEMICAL PRECIPITATION SOFTENING SYSTEM. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE THIRD LEVEL OF A THREE MODULE SERIES. THIS MODULE CONSIDERS THE APPLICATION OF PROCESS THEORY AND LABORATORY DATA FOR OPTIMAL PROCESS CONTROL, TROUBLESHOOTING PROCESS AND DESIGN PROBLEMS AND SLUDGE HANDLING AND DISPOSAL ALTERNATIVES. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002995

ERIC ACCESSION NUMBER: ED151233

PUBLICATION DATE: SEP 77

TITLE: BASIC STABILIZATION. TRAINING MODULE 2.225.2.77.

PERSONAL AUTHOR: PAULSON, W. L.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; OPERATIONS (WATER); *WATER TREATMENT; *CORROSION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 50P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; PAGE 25 REMOVED DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH WATER STABILIZATION AND DEPOSITION AND CORROSION CONTROL IN A WATER SUPPLY SYSTEM. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS WATER STABILITY, WATER CHEMISTRY, DEPOSITION, DEPOSITION CONTROL, CORROSION AND CORROSION CONTROL. THIS IS THE FIRST LEVEL OF A TWO MODULE SERIES. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002996

ERIC ACCESSION NUMBER: ED151234

PUBLICATION DATE: SEP 77

TITLE: ADVANCED STABILIZATION. TRAINING MODULE 2.226.3.77.

PERSONAL AUTHOR: PAULSON, W. L.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; OPERATIONS (WATER); WATER; *WATER TREATMENT; *CORROSION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 62P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; REMOVED PAGES 22-27, 35 DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR KNOWLEDGEABLE IN THE CHEMISTRY OF WATER STABILIZATION AND FAMILIAR WITH CONTROL OF DEPOSITION AND CORROSION IN A WATER SUPPLY SYSTEM. THIS IS THE SECOND LEVEL OF A TWO MODULE SERIES. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS THE STABILITY ANALYSIS OF A WATER, THE CHEMISTRY OF SCALE FORMATION, AND THE CHEMISTRY OF CORROSION AND CORROSION CONTROL. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002997

ERIC ACCESSION NUMBER: ED151235

PUBLICATION DATE: SEP 77

TITLE: FLUORIDATION AND DEFLUORIDATION. TRAINING MODULE 2.230.2.77.

PERSONAL AUTHOR: MCMULLEN, L. D.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; *FLUORIDATION; OPERATIONS (WATER); *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 62P.; FOR RELATED DOCUMENTS, SEE SE 024 025-047; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE; SMALL PRINT IN TABLES AND DRAWINGS

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH FLUORIDATION AND FLUORIDE FEEDING EQUIPMENT. ENCLOSED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS THE PRINCIPLES AND PURPOSES OF FLUORIDATION, METHODS OF FEEDING FLUORIDE, OPERATION AND MAINTENANCE OF FEEDING EQUIPMENT, FEED RATES AND DEFLUORIDATION IN GENERAL. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002998

ERIC ACCESSION NUMBER: ED151236

PUBLICATION DATE: SEP 77

TITLE: CHLORINATION. TRAINING MODULE 2.300.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; *CHLORINATION; *WASTEWATER TREATMENT; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 60P.; FOR RELATED DOCUMENTS, SEE SE 024 025-046

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH CHLORINE, THE REASONS FOR CHLORINATION AND SAFE OPERATION AND MAINTENANCE OF GAS CHLORINE, DRY CALCIUM HYPOCHLORITE AND LIQUID SODIUM HYPOCHLORITE CHLORINATION SYSTEMS FOR WATER SUPPLY AND WASTEWATER TREATMENT FACILITIES. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS PURPOSES OF CHLORINATION, PROPERTIES OF CHLORINE, METHODS OF CHLORINATION, SAFETY, MAINTENANCE OF CHLORINATION UNITS AND INTERPRETATION OF TEST RESULTS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW002999

ERIC ACCESSION NUMBER: ED151152

PUBLICATION DATE: FEB 76

TITLE: DRAFT GUIDELINES FOR STATE AND AREAWIDE WATER QUALITY MANAGEMENT PROGRAM DEVELOPMENT.

INSTITUTION CODE: BBB06039

DESCRIPTOR: ANNOTATED BIBLIOGRAPHIES; CITIZEN PARTICIPATION; COST EFFECTIVENESS; *ENVIRONMENT; *FEDERAL LEGISLATION; *GUIDELINES; LAND USE; MANAGEMENT SYSTEMS; *POLLUTION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; *WATER RESOURCES; *ENVIRONMENTAL PROTECTION AGENCY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$16.73 PLUS POSTAGE.

DESCRIPTIVE NOTE: 316P.

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT DISCUSSES THE DRAFT GUIDELINES FORMULATED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) TO ASSIST THE STATES IN ESTABLISHING A MANAGEMENT PROGRAM TO INTEGRATE WATER QUALITY AND OTHER RESOURCE MANAGEMENT DECISIONS. THESE GUIDELINES ARE PROVIDED SO THAT THE LONG RANGE GOALS OF THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 CAN BE MET, ESPECIALLY THE MANDATES OF SECTION 303 AND SECTION 208. AN EXTENSIVE ANNOTATED BIBLIOGRAPHY IS INCLUDED. (CS)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003000

ERIC ACCESSION NUMBER: ED151161

PUBLICATION DATE: JUN 74

TITLE: WASTEWATER SAMPLING METHODOLOGIES AND FLOW MEASUREMENT TECHNIQUES.

PERSONAL AUTHOR: HARRIS, DANIEL J.; KEFFER, WILLIAM J.

INSTITUTION CODE: BBB06039

DESCRIPTOR: ENVIRONMENT; *EQUIPMENT STANDARDS; *LABORATORY PROCEDURES; *POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SAMPLING; SANITATION; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 156P.; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT PROVIDES A READY SOURCE OF INFORMATION ABOUT WATER/WASTEWATER SAMPLING ACTIVITIES USING VARIOUS COMMERCIAL SAMPLING AND FLOW MEASUREMENT DEVICES. THE REPORT CONSOLIDATES THE FINDINGS AND SUMMARIZES THE ACTIVITIES, EXPERIENCES, SAMPLING METHODS, AND FIELD MEASUREMENT TECHNIQUES CONDUCTED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA), REGION VII, FIELD INVESTIGATIONS SECTION. THE RESULTS OF FIVE SEPARATE SAMPLER PERFORMANCE STUDIES ARE REPORTED WHICH INDICATED SIGNIFICANT DIFFERENCES BETWEEN AUTOMATIC COMPOSITORS AND MANUAL SAMPLING METHODS. (CS)

REPORT NUMBER: EPA-907/9-74-005

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003001

ERIC ACCESSION NUMBER: ED151169

PUBLICATION DATE: 73

TITLE: INSTRUCTOR'S GUIDE FOR FLUID MECHANICS: A MODULAR APPROACH.

PERSONAL AUTHOR: COX, JOHN S.

INSTITUTION CODE: BBB06557

DESCRIPTOR: *CURRICULUM; EDUCATIONAL OBJECTIVES; *ENGINEERING; *HIGHER EDUCATION; INDEPENDENT STUDY; *INSTRUCTIONAL MATERIALS; LEARNING MODULES; *MECHANICS (PHYSICS); PHYSICS; *FLUID MECHANICS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$14.05 PLUS POSTAGE.

DESCRIPTIVE NOTE: 256P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS GUIDE IS DESIGNED TO ASSIST ENGINEERING TEACHERS IN DEVELOPING AN UNDERSTANDING OF FLUID MECHANICS IN THEIR STUDENTS. THE COURSE IS DESIGNED AROUND A SET OF NINE SELF-PACED LEARNING MODULES, EACH OF WHICH CONTAINS A DISCUSSION OF THE SUBJECT MATTER; INCREMENTAL OBJECTIVES; PROBLEM INDEX, SET AND ANSWERS; RESOURCE MATERIALS; AND A QUIZ WITH SUGGESTED RESPONSES. EMPHASIS IS PLACED UPON A RATIONAL, ANALYTICAL APPROACH WHICH CAN HAVE BROAD APPLICABILITY TO ALL FIELDS OF ENGINEERING. MODULES INCLUDE: (1) FLUID PROPERTIES; (2) FLUID STATICS; (3) BASIC CONCEPTS OF FLUID DYNAMICS AND THE EQUATION OF CONTINUITY; (4) THE ENERGY EQUATION; (5) THE MOMENTUM EQUATION; (6) SIMILITUDE; (7) VISCOUS FLUID FLOW; (8) VISCOUS FLOW APPLICATIONS; AND (9) COMPRESSIBLE FLUID FLOW. (CS)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.

IRIS ACCESSION NUMBER: EW003002

ERIC ACCESSION NUMBER: ED151170

PUBLICATION DATE: AUG 72

TITLE: DEVELOPMENT OF A WATER TREATMENT PLANT OPERATION MANUAL USING AN ALGORITHMIC APPROACH.

PERSONAL AUTHOR: COUNTS, CARY A.

INSTITUTION CODE: BBB06557

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *EDUCATIONAL OPPORTUNITIES; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; WATER RESOURCES; PLANT OPERATIONS; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$15.39 PLUS POSTAGE.

DESCRIPTIVE NOTE: 282P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT DESCRIBES THE STEPS TO BE FOLLOWED IN THE DEVELOPMENT OF A PRESCRIPTION MANUAL FOR TRAINING OF WATER TREATMENT PLANT OPERATORS. SUGGESTIONS ON HOW TO PREPARE BOTH FLOW AND NARRATIVE PRESCRIPTIONS ARE PROVIDED FOR A VARIETY OF WATER TREATMENT SYSTEMS, INCLUDING: RAW WATER, FLOCCULATION, RAPID SAND FILTER, CAUSTIC SODA FEED, ALUM FEED, CHLORINATION AND FLUORIDATION. (CS)

GRANT NUMBER: EPA-5-P-3-WP-181-04; EPA-5-TT-1-WP-52-02

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003003

ERIC ACCESSION NUMBER: ED151199

PUBLICATION DATE: 77

TITLE: AQUATIC PLANTS AND THEIR CONTROL.

INSTITUTION CODE: BBB02582

DESCRIPTOR: BOTANY; ECOLOGY; *ENVIRONMENT; *HERBICIDES; LAND USE; *NATURAL RESOURCES; *PLANT SCIENCE; *SCIENCE EDUCATION; *WATER RESOURCES; *AQUATIC PLANTS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 12P.; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJUL78

ABSTRACT: AQUATIC PLANTS CAN BE DIVIDED INTO TWO TYPES: ALGAE AND MACROPHYTES. THE GOAL OF AQUATIC PLANT MANAGEMENT IS TO MAINTAIN A PROPER BALANCE OF PLANTS WITHIN A LAKE AND STILL RETAIN THE LAKE'S RECREATIONAL AND ECONOMIC IMPORTANCE. AQUATIC PLANT MANAGEMENT PROGRAMS HAVE TWO PHASES: LONG-TERM MANAGEMENT (NUTRIENT CONTROL), AND SHORT-TERM MANAGEMENT (DIRECT MANIPULATION OF ALGAE AND MACROPHYTE POPULATIONS). SOME OF THE PRINCIPLES AND TECHNIQUES OF LONG- AND SHORT-TERM AQUATIC PLANT MANAGEMENT ARE DISCUSSED. (AUTHOR/BB)

INSTITUTION NAME: MICHIGAN STATE DEPT. OF NATURAL RESOURCES, LANSING.

IRIS ACCESSION NUMBER: EW003004

ERIC ACCESSION NUMBER: ED151200

PUBLICATION DATE: 77

TITLE: PLANNING AND MANAGEMENT GUIDELINES FOR INLAND LAKE PROPERTY OWNERS.

PERSONAL AUTHOR: VAN DUSEN, PETER; MARSH, WILLIAM M.

INSTITUTION CODE: BBB02582

SPONSORING AGENCY CODE: BBB12767

DESCRIPTOR: BULLETINS; COMMUNITY PLANNING; ECOLOGY; *ENVIRONMENT; *LAND USE; *MANAGEMENT; *NATURAL RESOURCES; *REAL ESTATE; TURF MANAGEMENT; *WATER RESOURCES; *LAKES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 14P.; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJUL78

ABSTRACT: THIS BOOKLET IS DESIGNED TO ASSIST PROSPECTIVE AND ESTABLISHED PROPERTY OWNERS IN THE SELECTION, PLANNING, AND MANAGEMENT OF LAKE LANDS. IT IS ORGANIZED INTO THREE PARTS: (1) SELECTION AND PREPARATION OF A BUILDING SITE; (2) PROPERTY MANAGEMENT; AND (3) COMMUNITY DEVELOPMENT. THESE SECTIONS OUTLINE SOME BASIC GUIDELINES FOR LAND DEVELOPMENT AND MAINTENANCE BY NOT ONLY INDIVIDUAL PROPERTY OWNERS, BUT ALSO BY DEVELOPERS AND COMMUNITIES. IN ADDITION, CERTAIN MICHIGAN STATE ORDINANCES WHICH APPLY TO THE LAKE PROPERTY ARE IDENTIFIED. (AUTHOR/BB)

INSTITUTION NAME: MICHIGAN STATE DEPT. OF NATURAL RESOURCES, LANSING.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESEARCH AND TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003005

ERIC ACCESSION NUMBER: ED151203

PUBLICATION DATE: SEP 77

TITLE: BASIC MATHEMATICS. TRAINING MODULE 1.301.1.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *ARITHMETIC; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; MATHEMATICS EDUCATION; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL MATHEMATICS; *TEACHING GUIDES; *UNITS OF STUDY; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 160P.; FOR RELATED DOCUMENTS, SEE SE 023 997-SE 024 004

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH MATHEMATICS AS APPLIED TO WATER SUPPLY AND WASTEWATER TREATMENT PLANT OPERATION. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES AND STUDENT HANDOUTS. THE MODULE IS THE FIRST OF A THREE LEVEL SERIES AND IS CONCERNED WITH CALCULATION OF CIRCUMFERENCES, AREAS, VOLUMES, STORAGE CAPACITY, DETENTION TIME, PERCENTAGE, AVERAGES, UNIT EFFICIENCY, AND CONVERSION OF CONCENTRATION TO WEIGHT. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003006

ERIC ACCESSION NUMBER: ED151204

PUBLICATION DATE: SEP 77

TITLE: INTERMEDIATE MATHEMATICS. TRAINING MODULE 1.302.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: ARITHMETIC; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL APPLICATIONS; *MATHEMATICS; PHYSICAL SCIENCES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL MATHEMATICS; *TEACHING GUIDES; UNITS OF STUDY; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 176P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 004

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH MATHEMATICS AS APPLIED TO WATER AND WASTEWATER PLANT OPERATION. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, AND STUDENT HANDOUTS. THIS MODULE IS THE SECOND OF A THREE LEVEL SERIES AND ADDRESSES *RATIO AND PROPORTIONS, GRAPHS, TOTAL* SURFACE AREA, HEAT AND TEMPERATURE, METRICS, UNIT LOADINGS AND CHEMICAL ADDITION. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003007

ERIC ACCESSION NUMBER: ED151205

PUBLICATION DATE: SEP 77

TITLE: ADVANCED MATHEMATICS. TRAINING MODULE 1.303.3.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *ENGINEERING EDUCATION; *MATHEMATICS; POST SECONDARY EDUCATION; *SANITATION; SCIENCE EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; TECHNICAL MATHEMATICS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 69P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 004

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH MATHEMATICS AS APPLIED TO WATER AND WASTEWATER TREATMENT PLANT OPERATION. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES AND STUDENT HANDOUTS. THIS IS THE THIRD LEVEL OF A THREE MODULE SERIES AND IS CONCERNED WITH STATISTICS, TOTAL HEAD, STEADY FLOW IN PIPES, FLOW MEASUREMENT AND PUMP MOTOR POWER AND EFFICIENCY. (AUTHOR/BB)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003008

ERIC ACCESSION NUMBER: ED151206

PUBLICATION DATE: SEP 77

TITLE: NATURAL SYSTEMS. TRAINING MODULE 1.310.1.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *BIOLOGY; *ECOLOGY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *WATER POLLUTION CONTROL; *LIMNOLOGY; WASTEWATER TREATMENT; WATER

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 108P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 004

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE BASIC CONCEPTS OF THE WATER WORLD. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS NATURAL CYCLES, NATURAL RELATIONSHIPS, POLLUTION AND THE EFFECT OF MAN IN THESE NATURAL OCCURRANCES. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003009

ERIC ACCESSION NUMBER: ED151207

PUBLICATION DATE: SEP 77

TITLE: BIOLOGY FOR OPERATORS. TRAINING MODULE 1.311.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *BIOLOGY; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 141P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 004; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE BASIC CONCEPTS OF BIOLOGY RELATED TO WATER/WASTEWATER TECHNOLOGY. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS ORGANISMS AND THEIR RELATIONSHIP, CELL STRUCTURES, CLASSIFICATION OF ORGANISMS, MICROBIOLOGICAL CONCERNS IN WATER SUPPLY SYSTEMS AND MICROBIOLOGICAL CONCERNS IN WASTEWATER TREATMENT. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003010

ERIC ACCESSION NUMBER: ED151208

PUBLICATION DATE: SEP 77

TITLE: CHEMISTRY FOR OPERATORS. TRAINING MODULE 1.320.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMICAL REACTIONS; *CHEMISTRY; COLLEGE SCIENCE; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES; UNITS OF STUDY; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 79P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 004

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH GENERAL INORGANIC CHEMISTRY. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES AND STUDENT HANDOUTS. THE MODULE CONSIDERS MATTER, COMPOUNDS, CHEMICAL EQUATIONS, SOLUTIONS, CHEMICAL EQUILIBRIUM, ACIDS AND BASES AND SOLUBILITY EQUILIBRIA. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003011

ERIC ACCESSION NUMBER: ED151209

PUBLICATION DATE: SEP 77

TITLE: ADVANCED CHEMISTRY FOR OPERATORS. TRAINING MODULE 1.321.3.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES; UNITS OF STUDY; *WATER POLLUTION CONTROL; CHEMICAL STRUCTURES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 92P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 004; HANDOUTS 3 (PAGES 63-67), 7 (PAGES 72-81), AND 8 (PAGES 82-90) REMOVED PRIOR TO BEING SHIPPED TO EDRS FOR FILMING DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH INORGANIC AND GENERAL ORGANIC CHEMISTRY AS APPLIED TO WATER AND WASTEWATER TREATMENT. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, AND STUDENT HANDOUTS. THE MODULE CONTAINS MATERIAL RELATED TO CHEMICAL REACTIONS IN WATER SOLUTIONS, ORGANIC AND INORGANIC COMPOUNDS, COAGULATION, PESTICIDES, HEAVY METALS AND RADIOACTIVITY. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003012

ERIC ACCESSION NUMBER: ED151210

PUBLICATION DATE: SEP 77

TITLE: HYDRAULICS FOR OPERATORS. TRAINING MODULE 1.330.2.77.

PERSONAL AUTHOR: BENGSTON, HARLAN H.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: COLLEGE SCIENCE; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; PHYSICS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL SCIENCE; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; WATER

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 104P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 004; PAGES 167 AND 169 REMOVED PRIOR TO BEING SHIPPED TO EDRS DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE APPLICATION OF HYDRAULIC PRINCIPLES FOR OPERATION AND MAINTENANCE OF WATER SUPPLY SYSTEMS, WATER DISTRIBUTION SYSTEMS, WASTEWATER TREATMENT SYSTEMS AND WASTEWATER COLLECTION SYSTEMS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE FIRST LEVEL OF A TWO MODULE SERIES. THE MODULE IS CONCERNED WITH THE STUDY OF FLUID PROPERTIES AND THEIR UNITS, THE CONTINUITY EQUATION AND ITS USE IN CALCULATIONS, FLOW MEASURING DEVICES, FRICTIONAL HEAD LOSS IN OPEN CHANNELS AND IN PIPES BY THE CHEZY-MANNING METHOD AND BY THE HAZEN-WILLIAMS METHOD, AND HYDRAULICS OF SEWERS FLOWING FULL AND PARTIALLY FULL. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003013

ERIC ACCESSION NUMBER: ED151211

PUBLICATION DATE: SEP 77

TITLE: ADVANCED HYDRAULICS FOR OPERATORS. TRAINING MODULE 1.331.3.77.

PERSONAL AUTHOR: BENGSTON, HARLAN H.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *PHYSICS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; WATER POLLUTION CONTROL; *PUMPS; WASTEWATER COLLECTION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 59P.; FOR RELATED DOCUMENTS, SEE SE 023 996-SE 024 003; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE APPLICATION OF HYDRAULIC PRINCIPLES TO WATER SUPPLY AND WATER POLLUTION CONTROL SYSTEMS INCLUDING WATER DISTRIBUTION SYSTEMS AND SEWER SYSTEMS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS IS THE SECOND LEVEL OF A TWO MODULE SERIES. PRESENTED ARE ASPECTS OF HYDROSTATICS, BERNOULLIS EQUATION AND ENERGY RELATIONSHIPS FOR FLOW SYSTEMS INCLUDING FRICTIONAL LOSSES AND PUMP WORK INPUT, HYDRAULIC MODELS OF FLOWTHROUGH TANKS; AND OVERALL HYDRAULIC ANALYSIS OF SYSTEMS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003014

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL POLLUTION ANALYSIS.

PERSONAL AUTHOR: GOULDEN, P. D.

DESCRIPTOR: AIR POLLUTION CONTROL; *CHEMISTRY ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL RESEARCH *MEASUREMENT TECHNIQUES; METALS; NATURAL RESOURCES *POLLUTION; PUBLIC HEALTH; WATER POLLUTION CONTROL *SAMPLING; *MONITORING

DESCRIPTIVE NOTE: 209P.

ABSTRACT: THE PURPOSE OF THIS MONOGRAPH IS TO DESCRIBE TH METHODS BY WHICH ENVIRONMENTAL SAMPLES ARE OBTAINED AND HO THE LEVELS OF PARTICULAR POLLUTANTS IN THESE SAMPLES AR DETERMINED. THROUGHOUT THIS BOOK THE EMPHASIS IS PLACED O THE MOST RECENTLY DEVELOPED TECHNIQUES. THE DESCRIPTION O THE CHEMICAL AND INSTRUMENTAL TECHNIQUES USED IN TH IDENTIFICATION AND DETERMINATION OF ENVIRONMENTAL POLLUTANT IS SUFFICIENTLY DETAILED TO ALLOW NEW TECHNICIANS TO CARR OUT ROUTINE ANALYSIS. EXTENSIVE BIBLIOGRAPHIES ARE INCLUDE FOR REFERENCE. (CS)

AVAILABILITY: HEYDON & SONS, INC., 247 SOUTH 41ST ST. PHILADELPHIA, PA 19104 ($16.50)

IRIS ACCESSION NUMBER: EW003015

PUBLICATION DATE: 78

TITLE: MUNICIPAL WATER SYSTEMS: THE CHALLENGE FOR URBA RESOURCE MANAGEMENT.

PERSONAL AUTHOR: HOLZ, DAVID, ED.; SEBASTIAN, SCOTT, ED.

DESCRIPTOR: *CITY PLANNING; COST EFFECTIVENESS *ENVIRONMENTAL EDUCATION; LEGISLATION; PUBLIC HEALTH *POLLUTION; *UTILITIES; URBAN ENVIRONMENT; *WATER QUALITY WATER POLLUTION CONTROL; *PLANNING; *CONSERVATION; *WATE SUPPLY

DESCRIPTIVE NOTE: 307P.

ABSTRACT: THIS BOOK PRESENTS A REVIEW OF THE MOST IMPORTAN PROBLEMS IN THE MANAGEMENT OF MUNICIPAL WATER SYSTEMS. TH FIRST SECTION PRESENTS A BRIEF OVERVIEW OF THE FIELD. TH SECOND SECTION PRESENTS A SERIES OF PAPERS GIVEN AT CONFERENCE IN OCTOBER, 1976. THESE PRESENTATIONS HAVE BEE EDITED AND ORGANIZED INTO CHAPTERS. THE TOPICS DISCUSSE INCLUDE THE CONTEXT OF WATER PLANNING, PLANNING METHODOLOGY WATER QUALITY LEGISLATION, WASTE WATER REUSE, WATE CONSERVATION, PRICING POLICIES, TECHNOLOGICAL INNOVATION AND ENVIRONMENTAL CONSIDERATIONS IN WATER MANAGEMENT. (CS)

AVAILABILITY: INDIANA UNIV. PRESS, TENTH SOUTH WARTO STREET, BLOOMINGTON, IN 46740 ($20.00)

IRIS ACCESSION NUMBER: EW003016

PUBLICATION DATE: SEP 77

TITLE: EVALUATION OF CURRENT DEVELOPMENTS IN MUNICIPA WASTE TREATMENT.

PERSONAL AUTHOR: REMINI, WILLIAM C., ED.

DESCRIPTOR: COST EFFECTIVENESS; *ENVIRONMENTAL RESEARCH ENVIRONMENTAL EDUCATION; MUNICIPALITIES; *POLLUTION; PUBLI HEALTH; *RECYCLING; UTILITIES; *WASTE DISPOSAL; *WATE POLLUTION CONTROL; SLUDGE TREATMENT; *RADIATION; *DISEASE CONTROL; *PATHOGENS

DESCRIPTIVE NOTE: 121P. PROCEEDINGS OF A CONFERENCE AT THE JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND, JANUARY 2 AND 27, 1977

ABSTRACT: THIS PAPER SETS OUT TO EXPLAIN HOW ERDA'S DIVISION OF NUCLEAR RESEARCH AND APPLICATIONS, IN COOPERATION WITH THE ENVIRONMENTAL PROTECTION AGENCY, HA BEEN SUPPORTING A PROGRAM TO INVESTIGATE THE TECHNOLOGY FO USING GAMMA RADIATION TO REDUCE PATHOGEN LEVELS IN SEWAGE SLUDGE. THE EXTENT OF THE SLUDGE PROBLEM IS DISCUSSED AS I THE POTENTIAL FOR ADAPTING RADIATION TECHNOLOGY TO TH SOLUTION. (CS)

AVAILABILITY: NATIONAL TECHNICAL INFO. CENTER, OAK RIDGE, TN 37830 ($4.75)

IRIS ACCESSION NUMBER: EW003017

PUBLICATION DATE: SEP 76

TITLE: MEASUREMENT, DETECTION AND CONTROL OF ENVIRONMENTA POLLUTANTS.

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMISTRY *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL INFLUENCES *MEASUREMENT TECHNIQUES; METALS; *NUCLEAR PHYSICS; NATURA RESOURCES; *POLLUTION; WATER POLLUTION CONTROL; *MONITORING; *POLLUTANTS

DESCRIPTIVE NOTE: 644P.

ABSTRACT: THIS DOCUMENT PRESENTS THE INFORMATION SHARED AT A SYMPOSIUM ON THE USE OF NUCLEAR TECHNIQUES IN THE MEASUREMENT AND CONTROL OF ENVIRONMENTAL POLLUTION. THIS REVIEW DISCUSSES THE CURRENT STATUS OF THE DEVELOPMENT OF NUCLEAR ANALYTICAL METHODS AND TRACER TECHNIQUES IN THEIR CONTRIBUTION TO THE MONITORING OF POLLUTANTS. THE SYMPOSIUM PARTICIPANTS HEARD AND DISCUSSED 41 PAPERS RELATED TO THE ACTIVATION ANALYSIS OF AIR-BORNE PARTICULATE MATTER AND WATER POLLUTANTS, X-RAY FLUORESCENCE TECHNIQUES AND TRACER TECHNOLOGY IN THE INVESTIGATION OF AIR AND WATER POLLUTANTS. THIS REPORT ALSO PRESENTS THE INFORMATION EXCHANGED DURING GENERAL DISCUSSION SESSIONS. INCLUDED ARE INTERCOMPARISON STUDIES IN MULTIELEMENT ANALYSIS, ANALYTICAL TECHNIQUES BASED ON ELECTRON EXCITATION, AND THE ROLE OF TRACER TECHNOLOGY. (CS)

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 ($39.00)

IRIS ACCESSION NUMBER: EW003018

PUBLICATION DATE: JUN 75

TITLE: WATER AND WASTEWATER TECHNOLOGY.

PERSONAL AUTHOR: HAMMER, MARK J

DESCRIPTOR: BIOLOGY; CHEMISTRY; *ENGINEERING TECHNOLOGY; ENVIRONMENTAL INFLUENCES; HYDRAULICS; LAND USE; *POLLUTION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WASTEWATER TREATMENT; *WATER SUPPLY; *LAND APPLICATION

DESCRIPTIVE NOTE: 502P.

ABSTRACT: THIS BOOK PROVIDES AN UNDERSTANDING OF THE TECHNOLOGY OF MUNICIPAL WATER SUPPLY AND WASTEWATER DISPOSAL. THE INTRODUCTORY CHAPTERS DISCUSS THE FUNDAMENTALS OF CHEMISTRY, BIOLOGY, HYDRAULICS, AND HYDROLOGY THAT ARE UNIQUE TO SANITARY STUDIES. WATER DISTRIBUTION AND PROCESSING ARE DISCUSSED SEPARATELY FROM WASTEWATER COLLECTION AND TREATMENT. THE FINAL CHAPTERS GIVE AN OVERVIEW OF ADVANCED WASTE TREATMENT, WATER REUSE, AND LAND DISPOSAL TECHNIQUES. THERE ARE MANY ILLUSTRATIONS AND SAMPLE CALCULATIONS. ANSWERS ARE PROVIDED FOR HOMEWORK PROBLEMS TO ASSIST THOSE INTERESTED IN INDIVIDUAL STUDY. THE ESSENTIAL RESOURCE MATERIAL IS INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, NJ 08873 ($15.50)

IRIS ACCESSION NUMBER: EW003019

PUBLICATION DATE: 71

TITLE: INDUSTRIAL WATER POLLUTION.

PERSONAL AUTHOR: NEMEROW, NELSON L.

DESCRIPTOR: AGRIBUSINESS; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; *INDUSTRIAL TECHNOLOGY; NATURAL RESOURCES; *POLLUTION; SANITATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *INDUSTRIAL WASTES

DESCRIPTIVE NOTE: 738P.

ABSTRACT: THIS BOOK PROVIDES INFORMATION FOR INDIVIDUALS FACED WITH THE PROBLEM OF WATER POLLUTION ABATEMENT. THE FOUR SECTIONS OF THE BOOK DEAL WITH BASIC KNOWLEDGE AND PRACTICE, THEORIES, APPLICATIONS, AND MAJOR INDUSTRIAL WASTES. SECTION ONE CONTAINS BASIC FACTS, SUCH AS EFFECT OF WASTES ON THE ENVIRONMENT, HOW TO CALCULATE THE TREATMENT REQUIRED, AND HOW DECISIONS ARE INFLUENCED BY ECONOMICS. SECTION TWO DELVES INTO THEORIES. IT DISCUSSES REMOVAL OF SUSPENDED AND COLLOIDAL SOLIDS AS WELL AS NEUTRALIZATION, EQUALIZATION AND PROPORTIONING, AND PRIVATE CONTRACT COLLECTION AND TREATMENT. THE THIRD SECTION ACCENTUATES ENGINEERING PRACTICE AND PRESENTS CONCRETE EXAMPLES OF PROBLEMS AND THEIR SOLUTIONS. SEPARATE DISCUSSIONS OF ALL MAJOR LIQUID INDUSTRIAL WASTES ARE GIVEN IN SECTION FOUR. THEY ARE DIVIDED INTO THE CATEGORIES: (1)APPAREL; (2) FOOD PROCESSING; (3) MATERIALS; (4) CHEMICALS; (5) ENERGY; (6) NON-POINT PRACTICES. EACH SECTION CONTAINS AN EXTENSIVE BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: ADDISON-WESLEY PUB. CO., READING, MA 01867 ($27.30)

IRIS ACCESSION NUMBER: EW003020

ERIC ACCESSION NUMBER: ED152497

PUBLICATION DATE: SEP 76

TITLE: SOLID WASTE MANAGEMENT AVAILABLE INFORMATION MATERIALS. TOTAL LISTING 1966-1976.

PERSONAL AUTHOR: LARSEN, JULIE L.

INSTITUTION CODE: BBB10428

DESCRIPTOR: *BIBLIOGRAPHIES; *ENVIRONMENTAL EDUCATION; *MANAGEMENT EDUCATION; POLLUTION; RECYCLING; *SANITATION; *WASTE DISPOSAL; WASTES; WATER POLLUTION CONTROL; *ENVIRONMENTAL PROTECTION AGENCY; *SOLID WASTE MANAGEMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 111P.; NOT AVAILABLE IN HARD COPY DUE TO SMALL AND COLORED PRINT THROUGHOUT ENTIRE DOCUMENT

ISSUE: RIEAUG78

ABSTRACT: THIS PUBLICATION IS A COMPILED AND INDEXED BIBLIOGRAPHY OF SOLID WASTE MANAGEMENT DOCUMENTS PRODUCED IN THE LAST TEN YEARS. THIS U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) PUBLICATION IS COMPILED FROM THE OFFICE OF SOLID WASTE MANAGEMENT PROGRAMS (OSWMP) PUBLICATIONS AND THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS) REPORTS. INCLUDED ARE SUBJECT, TITLE, AND AUTHOR INDEXES OF THE TWO PUBLICATIONS LISTS. THE INTRODUCTORY SECTION CONTAINS SOME SELECTED MATERIALS TO SERVE AS AN ORIENTATION TO SOLID WASTE MANAGEMENT ISSUES. ALSO, THIS SECTION INCLUDES TEACHING MATERIALS, EXHIBITS, FILMS, TRAINING PROGRAMS, SLIDE PROGRAMS AND OTHER SOLID WASTE MANAGEMENT MATERIALS LISTED FOR EASY REFERENCE. THE THREE INDEXES HAVE ORDER NUMBERS FOR EACH ENTRY; ORDER INFORMATION IS LISTED IN THE BACK OF THE PUBLICATION. (MR)

REPORT NUMBER: SW-58-26

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. SOLID WASTE MANAGEMENT OFFICE.

IRIS ACCESSION NUMBER: EW003021

ERIC ACCESSION NUMBER: ED152533

PUBLICATION DATE: FEB 78

TITLE: AN ASSESSMENT OF WATER RESOURCE EDUCATION IN THE K-16 CURRICULA: CONCLUSIONS AND RECOMMENDATIONS. THE PROCEEDINGS OF THE OKLAHOMA WATER EDUCATION PLANNING CONFERENCE, MOORE, OKLAHOMA, OCTOBER 21, 1977.

INSTITUTION CODE: BBB00108

SPONSORING AGENCY CODE: BBB12216; FGK57300

DESCRIPTOR: *CONFERENCE REPORTS; CONSERVATION EDUCATION; CURRICULUM DEVELOPMENT; *EDUCATIONAL POLICY; *ENVIRONMENTAL EDUCATION; NATIONAL PROGRAMS; NATURAL RESOURCES; *PROGRAM DEVELOPMENT; SCIENCE EDUCATION; *WATER RESOURCES; *OKLAHOMA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 53P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEAUG78

ABSTRACT: REPORTED ARE CONCLUSIONS AND RECOMMENDATIONS FROM THE WATER EDUCATION PLANNING CONFERENCE HELD IN OCTOBER, 1977 IN OKLAHOMA. THE 51 PARTICIPANTS, SCIENCE EDUCATORS, SCIENTISTS, REPRESENTATIVES FROM STATE AND FEDERAL WATER AGENCIES, AND LEGISLATORS, WERE GIVEN TASKS AND QUESTIONNAIRES CONCERNING THE NATIONAL GUIDELINES FOR WATER RESOURCE EDUCATION FOR A K-16 CURRICULA. APPENDICES OF THIS DOCUMENT SUMMARIZE THE GROUP, THE TASKS, AND THE DATA RECEIVED. CONCLUSIONS OF THE DOCUMENT PERTAIN TO OKLAHOMA'S WATER RESOURCE EDUCATION NEEDS, GOALS, RESOURCES, AND PRIORITIES, AND TO THE ASSESSMENT OF THE NATIONAL MARINE EDUCATION DRAFT STATEMENT. RECOMMENDATIONS FOR WATER EDUCATION IN OKLAHOMA INCLUDE: (1) ESTABLISH REGIONAL WATER EDUCATION INFORMATION DISSEMINATION CENTERS; (2) COMPILE AND ASSESS CURRENTLY AVAILABLE WATER RESOURCE EDUCATION MATERIALS; AND (3) OKLAHOMA'S WATER RESOURCE EDUCATION COMMITTEE SHOULD CONTINUE TO FUNCTION IN A COORDINATING LEADERSHIP ROLE. RECOMMENDATIONS FOR THE NATIONAL GUIDELINES INCLUDE: (1) DRAFT DOCUMENT REFINEMENT SHOULD CONTINUE UNTIL GUIDELINES FOR INLAND AND COASTAL STATES ARE DEVELOPED; AND (2) THE NATIONAL STATEMENT OF WATER EDUCATION SHOULD REFLECT BALANCE BETWEEN SALT AND FRESH WATER. (MR)

INSTITUTION NAME: OKLAHOMA STATE UNIV., STILLWATER.

SPONSORING AGENCY NAME: DELAWARE UNIV., NEWARK. COLL. OF MARINE STUDIES.; NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003022

ERIC ACCESSION NUMBER: ED152545

PUBLICATION DATE: 77

TITLE: TOXICITY OF PESTICIDES. AGRICHEMICAL FACT SHEET 2.

PERSONAL AUTHOR: HOCK, WINAND K.

INSTITUTION CODE: BBB06081

DESCRIPTOR: AGRICULTURAL CHEMICAL OCCUPATIONS; CHEMISTRY; ENVIRONMENT; *HERBICIDES; *INSECTICIDES; ORGANIC CHEMISTRY; *PESTICIDES; POLLUTION; *TABLES (DATA); *FUNGICIDES; *TOXICITY; *TOXIC SUBSTANCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 5P.

ISSUE: RIEAUG78

ABSTRACT: THIS FACT SHEET GIVES THE ACUTE ORAL AND DERMAL TOXICITY (LD 50) OF OVER 250 PESTICIDES IN LAB ANIMALS. THE CHEMICALS ARE CATEGORIZED AS FUNGICIDES, HERBICIDES, INSECTICIDES, OR MISCELLANEOUS COMPOUNDS. ONE OR MORE TRADE NAMES ARE GIVEN FOR EACH PESTICIDE. IN ADDITION, A BRIEF EXPLANATION OF TOXICITY DETERMINATION IS GIVEN. (BB)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW003023

PUBLICATION DATE: 77

TITLE: VIRUSES AND TRACE CONTAMINANTS IN WATER AND WASTEWATER.

PERSONAL AUTHOR: BORCHARDT, JACK, ED.; AND OTHERS

DESCRIPTOR: CHEMISTRY; *DISEASE CONTROL; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; *POLLUTION; PUBLIC HEALTH; SANITATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *VIRUSES; *HEAVY METALS; *ORGANIC COMPOUNDS

DESCRIPTIVE NOTE: 249P.

ABSTRACT: THIS BOOK IS A COMPILATION OF PAPERS PRESENTED AT A SEMINAR ON VIRUSES AND TRACE CONTAMINANTS IN WATER AND WASTEWATER. THE INFORMATION IS PRESENTED TO ACQUAINT PLANT

OPERATORS, ENGINEERS, AND THE PUBLIC WITH TRACE ORGANICS, TRACE INORGANICS, AND VIRUSES. SECTION I DISCUSSES THE NATURE AND DETECTION OF VIRUSES. SECTION II DISCUSSES TRACE ORGANICS, WHILE HEAVY METALS ARE THE TOPIC OF THE THIRD SECTION. THE SETTING AND EVALUATING OF STANDARDS COMPRISES THE DISCUSSION IN SECTION IV. TWO OPERATIONS EXPERIENCES ARE PRESENTED IN THE LAST SECTION. EACH PRESENTATION INCLUDES A SUMMARY AND A LIST OF REFERENCES. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($29.50)

IRIS ACCESSION NUMBER: EW003024

PUBLICATION DATE: 75

TITLE: PETROLEUM IN THE MARINE ENVIRONMENT.

DESCRIPTOR: *BIOLOGICAL EFFECTS; CHEMISTRY; *COLLEGE SCIENCE; ENVIRONMENT; HYDROCARBONS; *INSTRUCTIONAL MATERIALS; *MARINE BIOLOGY; *OCEANOLOGY; *OIL; PETROLEUM INDUSTRY; *POLLUTION; PUBLIC HEALTH; SAMPLING; TOXICITY

DESCRIPTIVE NOTE: 107P.

ABSTRACT: THIS DOCUMENT PRESENTS THE INFORMATION RESULTING FROM A WORKSHOP ATTENDED BY SCIENTISTS AND ENGINEERS FROM THE U.S. AND FOREIGH ACADEMIC, GOVERNMENTAL AND INDUSTRIAL ORGANIZATIONS. INCLUDED IN THE TEXT ARE IDENTIFICATION OF VARIOUS SOURCES OF INPUTS OF PETROLEUM INTO THE OCEANS AND THEIR AMOUNTS, EVALUATION OF THE METHODS FOR ANALYSIS OF HYDROCARBONS, INFORMATION ON THE EFFECTS OF OCEANIC POLLUTION BY PETROLEUM AND AN EXAMINATION OF THE FATES OF PETROLEUM IN THE MARINE ENVIRONMENT. EACH CHAPTER PRESENTS A SECTION OUTLINING RECOMMENDATIONS AND A COMPREHENSIVE LIST OF REFERENCES. (CS)

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW, WASHINGTON, D.C. 20418 ($9.00)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW003025

PUBLICATION DATE: 08-30-77

TITLE: UNNECESSARY AND HARMFUL LEVELS OF DOMESTIC SEWAGE CHLORINATION SHOULD BE STOPPED.

DESCRIPTOR: CHEMICAL TREATMENT; *CHLORINATION; DISINFECTION; *ENVIRONMENTAL EFFECTS; *INDUSTRIAL WASTES; *SEWAGE; TOXICITY; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 58P. ORDER NO. PB 271 288

ABSTRACT: THIS BOOK SUGGESTS THAT CHLORINE, FREQUENTLY USED TO DISINFECT DOMESTIC SEWAGE AND DISCHARGED IN VARIOUS INDUSTRIAL WASTES, IS HARMFUL TO THE AQUATIC ENVIRONMENT, AND IN MANY SITUATIONS IS UNNECESSARY, EXCEPT IN AREAS OF SHELLFISH HARVESTING OR OF UNRESTRICTED IRRIGATION, DISINFECTION OF TREATED WASTES USUALLY IS NOT NEEDED TO PROTECT SWIMMABLE WATERS IN COLD MONTHS, WATERS RARELY USED FOR SWIMMING , OR DRINKING WATER. WHEN SEWAGE DISINFECTION IS NEEDED, PRESENT SEWAGE CHLORINATION PRACTICES GENERALLY RESULT IN EXCESSIVE AMOUNTS OF CHLORINE BEING DISCHARGED INTO WATERWAYS. MORE SHOULD BE DONE TO LIMIT RESIDUALS AND TO PROMOTE THE EFFICIENT USE OF CHLORINE IN SEWAGE DISINFECTION. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

INSTITUTION NAME: U.S. EPA, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003026

PUBLICATION DATE: 70

TITLE: AQUATIC CHEMISTRY.

PERSONAL AUTHOR: STUMM, WERNER; MORGAN, JAMES J.

DESCRIPTOR: CHEMISTRY; *CHEMICAL ANALYSIS; ENVIRONMENTAL INFLUENCES; ECOLOGY; METALS; NATURAL RESOURCES; *POLLUTION; *THERMODYNAMICS; *WATER POLLUTION CONTROL; WATER QUALITY; NATURAL WATERS

DESCRIPTIVE NOTE: 583P.

ABSTRACT: THIS REPORT IS CONCERNED WITH THE CHEMICAL PROCESSES IN THE NATURAL WATER ENVIRONMENT, INCLUDING LAKES, OCEANS, RIVERS, GROUNDWATERS, AND WATER TREATMENT SYSTEMS. THE METHODOLOGIES OF APPLYING CHEMICAL PRINCIPLES TO PROBLEMS OF AQUATIC ENVIRONMENTS ARE STRESSED. GRAPHICAL REPRESENTATIONS AND NUMERICAL EXAMPLES ARE USED EXTENSIVELY. THE SUBJECT AREAS DEALT WITH ARE INTERACTIONS BETWEEN SOLID PHASES AND AQUEOUS SOLUTIONS, COORDINATION CHEMISTRY, STABILITY RELATIONS AND MICROBIAL MEDIATION IN REDOX PROCESSES. THE THEORY OF THERMODYNAMIC EQUILIBRIUM IS UTILIZED EXTENSIVELY THROUGHOUT THE BOOK IN FORMULATION MODELS FOR AQUATIC SYSTEMS FOR HANDLING STABILITY RELATIONSHIPS AND COMPUTING EQUILIBRIUM PROPERTIES. (CS)

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($16.75)

IRIS ACCESSION NUMBER: EW003027

ERIC ACCESSION NUMBER: ED153863

PUBLICATION DATE: 75

TITLE: THE INTEGRITY OF WATER: PROCEEDINGS OF A SYMPOSIUM, WASHINGTON, D.C., MARCH 10-12, 1975.

INSTITUTION CODE: BB813327

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENVIRONMENT; LEGISLATION; *QUALITY CONTROL; SCIENTIFIC RESEARCH; *SYMPOSIA; TECHNICAL REPORTS; WATER POLLUTION CONTROL *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 222P.

ISSUE: RIESEP78

ABSTRACT: THIS VOLUME RESULTED FROM THE FORMAL PAPERS ANI COMMENTS PRESENTED AT AN INVITATIONAL SYMPOSIUM BY RECOGNIZED WATER EXPERTS REPRESENTING A VARIETY DI DISCIPLINES AND SOCIETAL INTERESTS. THE FOCUS OF THI SYMPOSIUM WAS ON THE DEFINITION AND INTERPRETATION OF WATER QUALITY INTEGRITY AS VIEWED BY REPRESENTATIVES OF STATI GOVERNMENTS, INDUSTRY, ACADEMIA, CONSERVATION ANI ENVIRONMENTAL GROUPS, AND OTHERS OF THE GENERAL PUBLIC. THIS VOLUME IS ORGANIZED IN SIX PARTS: (1) AN OVERVIEW, (2) CHEMICAL INTEGRITY, (3) PHYSICAL INTEGRITY, (4) BIOLOGICAL INTEGRITY--A QUALITATIVE APPRAISAL, (5) BIOLOGICAL INTEGRITY--A QUANTITATIVE DETERMINATION, AND (6) INTEGRITY· AN INTERPRETATION. (BB)

REPORT NUMBER: EPA-335

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMEN PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 055 001-01068-1; NO PRICE QUOTED)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003028

PUBLICATION DATE: 72

TITLE: TOWARD FULFILLMENT OF A NATIONAL OCEAN COMMITMENT.

DESCRIPTOR: EDUCATION; ENGINEERING; *ENVIRONMENTA INFLUENCES; GOVERNMENT ROLE; *NATURAL RESOURCES; *OCEA ENGINEERING; *OCEANOLOGY; *POLICIES; TECHNOLOGY TRANSPORTATION; WATER POLLUTION CONTROL; *MARINE RESOURCE AND ENGINEERING DEVELOPMENT ACT

DESCRIPTIVE NOTE: 255P.

ABSTRACT: THIS REPORT DISCUSSES THE DIRECTIONS, POLICIE AND GOALS ASSOCIATED WITH THE FUTURE OF MARINE AFFAIRS I THE UNITED STATES. THE TEXT IS A DISTILLATION O PROFESSIONAL EXPERIENCES MOST VALUABLE TO A NATIONAL MARIN PROGRAM FOR ALL SECTORS OF AMERICAN LIFE. AS A RESULT O THIS WORK THE ENGINEERING COMMITTEE ON OCEANIC RESOURCE (ECOR) HAS SET FORTH PRINCIPLE RECOMMENDATIONS FO IMPLEMENTATION OF A NATIONAL OCEAN PROGRAM. THES RECOMMENDATIONS ARE CONCERNED WITH COMMERCE AN TRANSPORTATION, LIVING AND NON-LIVING RESOURCES EXPLORATION, CONSTRUCTION, CIVIL WORKS, RESEARCH, EDUCATION, AND INFORMATION DISSEMINATION. (CS)

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, PRINTING AN PUBLISHING OFFICE, 2101 CONSTITUTION AVE., NW, WASHINGTON D.C. 20418 ($5.25)

INSTITUTION NAME: NATIONAL ACADEMY OF ENGINEERING, MARIN BOARD.

IRIS ACCESSION NUMBER: EW003029

PUBLICATION DATE: 76

TITLE: DISPOSAL IN THE MARINE ENVIRONMENT: A OCEANOGRAPHIC ASSESSMENT.

DESCRIPTOR: *ENVIRONMENTAL CRITERIA; ENVIRONMENTAI RESEARCH; MANAGEMENT; NATURAL RESOURCES; *OCEANOLOGY; POLLUTION; PUBLIC HEALTH; *WASTE DISPOSAL; *WATER POLLUTIOI CONTROL

ABSTRACT: THIS STUDY REVIEWS AND INTEGRATES SCIENTIFIC ANI TECHNICAL INFORMATION ON OCEAN DISPOSAL TO DEVELOP CONCEPTS FOR MONITORING AND REGULATING THIS PRACTICE. THE REPORT FIRST DESCRIBES THE CURRENT LEGISLATION AND REGULATIONS THAT FORM THE BACKGROUND OF THE WASTE DISPOSAL PROBLEM. NEXT, IT DISCUSSES THE AMOUNT AND PROPERTIES OF WASTE MATERIALS AND THEIR DISTRIBUTION AND FATE IN THE MARINE ENVIRONMENT. THE CURRENT SYSTEM FOR SITE SELECTION AND SITE MONITORING IS EVALUATED PRIOR TO OFFERING RECOMMENDATIONS FOR FURTHER DEVELOPMENT OF SOLUTIONS TO THE PROBLEM OF INCORPORATING EXISTING SCIENTIFIC INFORMATION IN THE MANAGEMENT OF OCEAN DISPOSAL. (CS)

AVAILABILITY: PRINTING & PUBLISHING OFFICE, NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., NW, WASHINGTON, D.C. 20418 ($5.00)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES.

IRIS ACCESSION NUMBER: EW003030

PUBLICATION DATE: 71

TITLE: RADIOACTIVITY IN THE MARINE ENVIRONMENT.

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *MARINE BIOLOGY; *OCEANOLOGY; PHYSICAL GEOGRAPHY; *POLLUTION; PUBLIC HEALTH; *RADIATION EFFECTS; WATER QUALITY; WATER POLLUTION CONTROL; *RADIONUCLIDES

DESCRIPTIVE NOTE: 272P.

ABSTRACT: THIS REPORT PROVIDES AN ACCOUNT OF THE INFORMATION AVAILABLE ABOUT RADIONUCLIDES IN THE MARINE ENVIRONMENT. THE SUBJECTS DISCUSSED INCLUDE SOURCES OF RADIONUCLIDES, THE DISTRIBUTION OF FALLOUT RADIONUCLIDES, PHYSICAL PROCESSES OF WATER MOVEMENT, CHEMICAL SYSTEMATICS AND ELEMENTARY REACTIVITIES IN SEAWATER, PROPERTIES OF SEDIMENTS, ACCUMULATION BY MARINE ORGANISMS, AND THE EFFECTS OF RADIONUCLIDES ON MARINE ORGANISMS AND MAN. EACH CHAPTER CONTAINS A SUMMARY OF THE INFORMATION PRESENTED AND A LIST OF REFERENCES. (CS)

AVAILABILITY: NATIONAL ACADEMY OF SCIENCES, 2101

CONSTITUTION AVE., WASHINGTON, D.C. 20418 ($15.75)

INSTITUTION NAME: PANEL ON RADIOACTIVITY IN THE MARINE ENVIRONMENT.

IRIS ACCESSION NUMBER: EW003032

PUBLICATION DATE: 70

TITLE: DESIGN AND CONSTRUCTION OF SANITARY AND STORM SEWERS.

DESCRIPTOR: *CIVIL ENGINEERING; MUNICIPALITIES; *PROJECT PLANNING; *PUBLIC HEALTH; *SANITATION; TECHNOLOGY; UTILITIES; *WASTE DISPOSAL; WATER RESOURCES; *WATER POLLUTION CONTROL; *SANITARY SEWERS; *WASTEWATER TREATMENT; *DESIGN; *CONSTRUCTION

DESCRIPTIVE NOTE: 332P.

ABSTRACT: THIS MANUAL IS DESIGNED AS AN AID TO THE PRACTICING ENGINEER TO PROVIDE A CHECKLIST OF ITEMS TO BE CONSIDERED IN A SANITARY SEWERAGE OR STORM DRAINAGE PROJECT. THE TWELVE CHAPTERS COVER ALL ASPECTS OF A PROJECT INCLUDING: ADMINISTRATION OF PROJECTS; SURVEYS AND INVESTIGATIONS; HYDRAULICS, DESIGN AND SPECIAL STRUCTURES; MATERIALS; STRUCTURAL REQUIREMENTS; AND CONSTRUCTION CONTRACTS AND METHODS. (CS)

AVAILABILITY: WPCF, 2626 PENNSYLVANIA AVE., WASHINGTON, D. C. 20037 ($10.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.; AMERICAN SOCIETY OF CIVIL ENGINEERS.

IRIS ACCESSION NUMBER: EW003033

PUBLICATION DATE: 71

TITLE: WATER POLLUTION BY OIL.

PERSONAL AUTHOR: WADDINGTON, J. IAN

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; LUBRICANTS (OIL); MARINE BIOLOGY; *PETROLEUM INDUSTRY; *POLLUTION; PUBLIC HEALTH; *WATER DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY

ABSTRACT: THIS DOCUMENT PRESENTS THE PROCEEDINGS OF A SEMINAR IN 1970 WHICH ADDRESSED THE PROBLEM OF WATER POLLUTION BY OIL. THE PRESENTATIONS DEAL WITH A WIDE VARIETY OF ENVIRONMENTAL EFFECTS INCLUDING THE GROWTH OF PETROLEUM PRODUCTION AND MOVEMENT, AND THE PREVENTION OF WATER POLLUTION FROM REFINERIES, PIPELINES, STORAGE TANKS AND INDUSTRIAL USES. ADDITIONALLY, THE CONTENTS ADDRESS THE PROBLEMS OF OIL POLLUTION AT SEA AS A RESULT OF MAJOR SPILLS, BALLAST AND WASH WATERS FROM TANKERS, OR SPILLAGE FROM COASTAL OPERATIONS. (CS)

AVAILABILITY: APPLIED SCIENCE PUBLISHERS, LTD., RIPPLE RD., BARKING, ESSEX, ENGLAND

IRIS ACCESSION NUMBER: EW003034

PUBLICATION DATE: 77

TITLE: WATER RE-USE AND THE CITIES.

PERSONAL AUTHOR: DWORKIN, DANIEL; AND OTHERS

DESCRIPTOR: *CONSERVATION; COST EFFECTIVENESS; *ENVIRONMENTAL RESEARCH; MUNICIPALITIES; *NATURAL RESOURCES; POLLUTION; *PUBLIC HEALTH; *RECYCLING; SANITATION; *UTILITIES; WASTE DISPOSAL; *WATER QUALITY; *WATER RESOURCES; CASE STUDIES

DESCRIPTIVE NOTE: 238P.

ABSTRACT: THIS BOOK DISCUSSES THE NEED AND PROSPECT FOR WATER RE-USE AS EVIDENCED BY RESEARCH AND STUDIES CONDUCTED BY CLARK UNIVERSITY. PART I EXAMINES THE PAST HISTORY OF WATER USE IN THE UNITED STATES AND CITES EXAMPLES OF REUSE IN SIX CITIES. PART II ADDRESSES THE POTENTIAL OBSTACLES ASSOCIATED WITH THE DIFFUSION OF WATER RE-USE SYSTEMS. THESE CONCERNS INCLUDE HEALTH HAZARDS, ECONOMIC FEASIBILITY, PUBLIC ACCEPTANCE AND TECHNOLOGY. INNOVATION AND PUBLIC POLICY REGARDING WATER RE-USE ARE PRESENTED IN PART III. A BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: UNIVERSITY PRESS OF NEW ENGLAND, HANOVER, NH 03755 ($17.50)

IRIS ACCESSION NUMBER: EW003035

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL EFFECTS OF SEPTIC TANK SYSTEMS.

PERSONAL AUTHOR: SCALF, MARION R.; AND OTHERS

DESCRIPTOR: ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL RESEARCH; *LAND USE; *LITERATURE REVIEWS; RURAL ENVIRONMENT; SUBURBAN ENVIRONMENT; *SANITATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; *SEPTIC TANKS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 34P.

ABSTRACT: THIS LITERATURE STUDY SUMMARIZES RESEARCH ON SEPTIC TANK SYSTEMS. SECTIONS INCLUDE INTRODUCTION, CONCLUSIONS, RECOMMENDATIONS, SYSTEMS, DESIGNS, PRESENT REGULATIONS, POLLUTION PROBLEMS, CURRENT RESEARCH ,FUTURE TRENDS AND RECOMMENDATIONS, AND REFERENCES. CONCLUSIONS INCLUDE: (1) SOILS IN AS MUCH AS ONE-HALF OF THE UNITED STATES ARE NOT SUITABLE FOR CONVENTIONAL SEPTIC TANK SOIL ABSORPTION SYSTEMS. SEPTIC TANK SYSTEMS ARE COMMON SOURCES OF SURFACE AND ESPECIALLY GROUND WATER CONTAMINATION; AND (2) THERE ARE SEVERAL MODIFICATIONS TO CONVENTIONAL SEPTIC TANK SYSTEMS WHICH CAN EXPAND THEIR APPLICABILITY. RECOMMENDATIONS SUGGEST THAT SEPTIC TANK USE AREAS BE PLANNED AND ZONED ACCORDING TO SOIL, GEOLOGIC, TOPOLOGICAL AND AQUIFER CHARACTERISTICS AND THAT RESEARCH BE CONDUCTED TO IMPROVE SEPTIC TANK SYSTEMS TO FIT A WIDER RANGE OF CONDITIONS AND TO CAUSE LESS WATER CONTAMINATION. THE SECTION DISCUSSING POLLUTION PROBLEMS CONSIDERS THE EFFECTS ON GROUND WATER AND THE SEPTIC TANK SLUDGE DISPOSAL CONSIDERATIONS. CURRENT RESEARCH ON THE MOVEMENT OF LEACHATES, IMPROVEMENT OF CONVENTIONAL SYSTEMS, AND ALTERNATIVE ON-SITE DISPOSAL SYSTEMS IS DISCUSSED. (*R)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

IRIS ACCESSION NUMBER: EW003036

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOLUME I: SUMMARY REPORT.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: *DISPOSAL; *ENVIRONMENT; *POLLUTANTS (INDUSTRIAL); RADIOACTIVITY; *WASTEWATER DISPOSAL; *NATIONAL DISPOSAL SITE; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 203P.

ABSTRACT: THIS REPORT INCLUDES AN UPDATED LISTING OF HAZARDOUS WASTE STREAM CONSTITUENTS, AN EVALUATION OF THE ADEQUACY OF CURRENT WASTE MANAGEMENT PRACTICES FOR THESE MATERIALS, AND AN IDENTIFICATION OF THE RESEARCH AND DEVELOPMENT REQUIRED TO PROVIDE NECESSARY INFORMATION OR DEVELOP ADEQUATE TREATMENT METHODS. THE SUGGESTION IS MADE THAT A SYSTEM OF NATIONAL DISPOSAL SITES BE PROVIDED AS A REPOSITORY FOR CERTAIN CLASSES OF HAZARDOUS WASTE STREAM CONSTITUENT RESIDUES WHICH MUST BE STORED AND MONITORED PERMANENTLY TO AVOID HARM TO THE PUBLIC AND/OR THE ENVIRONMENT. (BB)

AVAILABILITY: NTIS, 5285 PORT ROAYL RD., SPRINGFIELD, VA 22161 ($9.25)

IRIS ACCESSION NUMBER: EW003037

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOLUME III: DISPOSAL PROCESS DESCRIPTIONS. ULTIMATE DISPOSAL, INCINERATION, AND PYROLYSIS PROCESSES.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: DEEP WELLS; *DISPOSAL; ENVIRONMENT; *HAZARDOUS WASTES; *INCINERATION; LANDFILLS; *POLLUTANTS (INDUSTRIAL); *UNDERGROUND DISPOSAL; WASTEWATER DISPOSAL; *PYROLYSIS; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 248P.

ABSTRACT: THIS VOLUME PROVIDES DESCRIPTIONS OF ULTIMATE DISPOSAL PROCESSES, INCINERATION, AND PYROLYSIS PROCESSES CURRENTLY USED FOR THE TREATMENT OR DISPOSAL OF HAZARDOUS WASTES. THESE DESCRIPTIONS DETAIL THE IMPORTANT FEATURES OF EACH PROCESS AND DISCUSS THEIR APPLICABILITY TO THE VARIOUS CLASSES OF WASTE MATERIALS. THE ULTIMATE DISPOSAL PROCESSES INCLUDE: DEEP WELL DISPOSAL, LAND BURIAL, LANDFILL DISPOSAL, AND OCEAN DUMPING. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($10.75)

IRIS ACCESSION NUMBER: EW003038

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOL IV: DISPOSAL PROCESS DESCRIPTIONS. BIOLOGICAL AND MISCELLANEOUS WASTE TREATMENT PROCESSES.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; AERATED LAGOONS; *DIALYSIS; ELECTRODIALYSIS; *ION EXCHANGE; REVERSE OSMOSIS; *RADIOACTIVITY; TRICKLING FILTERS; *WASTEWATER TREATMENT; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 144P.

ABSTRACT: THIS VOLUME PROVIDES DESCRIPTIONS OF SELECTED PROCESSES CURRENTLY UTILIZED FOR THE TREATMENT OR DISPOSAL OF HAZARDOUS WASTES. THESE DESCRIPTIONS DETAIL THE IMPORTANT FEATURES OF EACH PROCESS AND DISCUSS THEIR APPLICABILITY TO THE VARIOUS CLASSES OF WASTE MATERIALS. INCLUDED ARE DESCRIPTIONS OF FOUR BIOLOGICAL PROCESSES: ACTIVATED SLUDGE, AERATED LAGOONS, OXIDATION PONDS, AND TRICKLING FILTERS. IN ADDITION, FIVE OTHER PROCESSES ARE DESCRIBED: DIALYSIS, ELECTRODIALYSIS, ION EXCHANGE, REVERSE OSMOSIS, AND RADIOACTIVE WASTE SOLIDIFICATION. (AUTHOR/BB).

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($7.25)

IRIS ACCESSION NUMBER: EW003039

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOL. V: NATIONAL DISPOSAL SITE CANDIDATE WASTE STREAM CONSTITUENT PROFILE REPORTS. PESTICIDES AND CYANIDE COMPOUNDS.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: *CYANIDE; CYCLODIENES; CHLORINATED HYDROCARBONS; *DISPOSAL; HERBICIDES; INSECTICIDES; INDUSTRIAL WASTES; *PESTICIDES; POLLUTANTS (INDUSTRIAL);

TOXICOLOGY; *WASTEWATER DISPOSAL; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 143P.

ABSTRACT: THIS VOLUME CONTAINS SUMMARY INFORMATION AND EVALUATION OF WASTE MANAGEMENT METHODS IN THE FORM OF PROFILE REPORTS FOR PESTICIDES AND INORGANIC CYANIDES. INCLUDED IS INFORMATION ON ALDRIN, DIELDRIN, DDD, DDT, PARATHION, CADMIUM, CALCIUM, SILVER, AND ZINC CYANIDES, AMONG OTHERS. EACH REPORT CONTAINS A DISCUSSION OF THE GENERAL CHARACTERISTICS OF THE WASTE STREAM CONSTITUENTS, THEIR TOXICOLOGY AND OTHER ASSOCIATED HAZARDS, THE DEFINITION OF ADEQUATE MANAGEMENT FOR THE WASTE MATERIAL, AN EVALUATION OF THE CURRENT WASTE MANAGEMENT PRACTICES WITH REGARD TO THEIR ADEQUACY, AND RECOMMENDATIONS AS TO THE MOST APPROPRIATE PROCESSING METHODS AVAILABLE AND WHETHER THE WASTE MATERIAL SHOULD BE CONSIDERED A CANDIDATE FOR NATIONAL, INDUSTRIAL, OR MUNICIPAL DISPOSAL. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($7.25)

IRIS ACCESSION NUMBER: EW003040

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOL. VI: NATIONAL DISPOSAL SITE CANDIDATE WASTE STREAM CONSTITUENT PROFILE REPORTS. MERCURY, ARSENIC, CHROMIUM, AND CADMIUM OMPOUNDS.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: *ARSENIC; *DISPOSAL; INDUSTRIAL WASTES; *METALS; MUNICIPAL WASTES; *POLLUTANTS (INDUSTRIAL); TOXICOLOGY; *WASTEWATER DISPOSAL; *MERCUURY; *CADMIUM; *CHROMIUM; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 205P.

ABSTRACT: THIS VOLUME CONTAINS INFORMATION AND EVALUATION OF WASTE MANAGEMENT METHODS FOR MERCURY, ARSENIC, CHROMIUM, AND CADMIUM COMPOUNDS. INCLUDED ARE FIVE MERCURIC SALTS, ORGANIC MERCURY, ARSENATES AND ARSENITES, HEXAVALENT CHROMIUM COMPOUNDS, AND 7 CADMIUM SALTS. THE REPORT CONTAINS A DISCUSSION OF THE GENERAL CHARACTERISTICS OF THE WASTE STREAM CONSTITUENTS, THEIR TOXICOLOGY AND OTHER ASSOCIATED HAZARDS, THE DEFINITION OF ADEQUATE MANAGEMENT FOR THE WASTE MATERIAL, AN EVALUATION OF THE CURRENT WASTE MANAGEMENT PRACTICES, AND RECOMMENDATIONS AS TO THE MOST APPROPRIATE PROCESSING METHODS AVAILABLE AND WHETHER THE WASTE MATERIAL SHOULD BE CONSIDERED A CANDIDATE FOR NATIONAL, INDUSTRIAL, OR MUNICIPAL DISPOSAL. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD. SPRINGFIELD, VA 22161 ($9.25)

IRIS ACCESSION NUMBER: EW003041

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOL. XI: INDUSTRIAL AND MUNICIPAL DISPOSAL CANDIDATE WASTE STREAM CONSTITUENT PROFILE REPORTS. ORGANIC COMPOUNDS.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: *DISPOSAL; INDUSTRIAL WASTES; MUNICIPAL WASTES; *ORGANIC COMPOUNDS; POLLUTANTS (INDUSTRIAL); *TOXICOLOGY; *WASTEWATER DISPOSAL; *BENZNENE DERIVATIVES; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 257P.

ABSTRACT: THIS REPORT CONTAINS SUMMARY INFORMATION AND EVALUATION OF WASTE MANAGEMENT METHODS FOR THE FOLLOWING ORGANIC COMPOUNDS: ETHER, BENZENE DERIVATIVES, GLYCOLS, NITRO-ORGANIC COMPOUNDS, POLYCHLORINATED BIPHENOLS, ORGANO-HALIDES, TETRAETHYL- AND TETRAMETHYL LEAD, AND HALOGENATED ALIPHATIC HYDROCARBONS. OVER FORTY COMPOUNDS ARE DISCUSSED. THE REPORT CONTAINS A DISCUSSION OF THE WASTE STREAM CONSTITUENTS, THEIR TOXICITY AND OTHER ASSOCIATED HAZARDS. THE DEFINITION OF ADEQUATE MANAGEMENT FOR THE WASTE MATERIAL, AN EVALUATION OF THE CURRENT WASTE MANAGEMENT PRACTICES, AND RECOMMENDATION AS TO THE MOST APPROPRIATE PROCESSING METHODS AVAILABLE AND WHETHER THE WASTE MATERIAL SHOULD BE CONSIDERED A CANDIDATE FOR NATIONAL, INDUSTRIAL, OR MUNICIPAL DISPOSAL. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.50)

IRIS ACCESSION NUMBER: EW003042

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOL. XII: INDUSTRIAL AND MUNICIPAL DISPOSAL CANDIDATE WASTE STREAM CONSTITUENT PROFILE REPORTS. INORGANIC COMPOUNDS.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: ALUMINUM; CARBONATES; *DISPOSAL; FLOURIDES; *INDUSTRIAL WASTES; *MUNICIPAL WASTES; POLLUTANTS (INDUSTRIAL); PHOSPHATES; *WASTEWATER TREATMENT; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 333P.

ABSTRACT: THIS VOLUME CONTAINS SUMMARY INFORMATION AND EVALUATION OF WASTE MANAGEMENT METHODS IN THE FORM OF PROFILE REPORTS FOR INORGANIC COMPOUNDS. INCLUDED ARE REPORTS ON ALKALI AND AMMONIUM FLUORIDES, ALUMINUM SALTS, AMMONIUM SALTS, ANTIMONY SALTS, ARSENIC AND ARSENIC TRICHLORIDE, BARIUM SALTS, BERYLLIUM SALTS, BORIC ACID, BORON TRIFLUORIDE, BROMINE, CHROME COBALT SALTS, COPPER NITRATE AND SULFATE, AND HYDRAZINE. EACH PROFILE CONTAINS A DISCUSSION OF THE GENERAL CHARACTERISTICS OF THE WASTE STREAM CONSTITUENTS, THEIR TOXICITY AND OTHER ASSOCIATED HAZARDS, THE DEFINITION OF ADEQUATE MANAGEMENT FOR THE WASTE MATERIAL, AN EVALUATION OF THE CURRENT WASTE MANAGEMENT PRACTICES WITH REGARD TO THEIR ADEQUACY, AND RECOMMENDATIONS AS TO THE MOST APPROPRIATE PROCESSING METHODS AVAILABLE AND WHETHER THE WASTE MATERIAL SHOULD BE CONSIDERED A CANDIDATE FOR NATIONAL, INDUSTRIAL, OR MUNICIPAL DISPOSAL. (BB/AUTHOR)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($12.00)

IRIS ACCESSION NUMBER: EW003043

PUBLICATION DATE: AUG 73

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE. VOL. XIII: INDUSTRIAL AND MUNICIPAL DISPOSAL CANDIDATE WASTE STREAM CONSTITUENT PROFILE REPORTS. INORGANIC COMPOUNDS CONTINUED.

PERSONAL AUTHOR: OTTINGER, R.S.; AND OTHERS

DESCRIPTOR: *DISPOSAL; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; LEAD; *MUNICIPAL WASTES; MANGANESE; METALS; POLLUTANTS (INDUSTRIAL); *WASTEWATER TREATMENT; CHROMIUM; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 296P.

ABSTRACT: THIS VOLUME CONTAINS SUMMARY INFORMATION AND EVALUATION OF WASTE MANAGEMENT METHODS IN THE FORM OF PROFILE REPORTS FOR INORGANIC COMPOUNDS. INCLUDED IN THIS VOLUME ARE BAUXITE MUD, TRIVALENT CHROMIUM SALTS, LEAD COMPOUNDS, MANGANESE AND ITS CHLORIDE AND SULFATE, NICKEL COMPOUNDS, HALOGENATED PHOSPHORUS COMPOUNDS, SODIUM COMPOUNDS, ZINC COMPOUNDS, AND OTHERS FOR A TOTAL OF 61 PROFILES. EACH PROFILE REPORT CONTAINS A DISCUSSION OF THE GENERAL CHARACTERISTICS OF THE WASTE STREAM CONSTITUENTS, THEIR TOXICOLOGY AND OTHER HAZARDS, THE DEFINITION OF ADEQUATE MANAGEMENT, AN EVALUATION OF CURRENT WASTE MANAGEMENT PRACTICES, AND RECOMMENDATIONS AS TO THE MOST APPROPRIATE PROCESSING METHODS AVAILABLE AND WHETHER THE MATERIAL SHOULD BE A CANDIDATE FOR NATIONAL, INDUSTRIAL, OR MUNICIPAL DISPOSAL. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($11.00)

IRIS ACCESSION NUMBER: EW003044

PUBLICATION DATE: AUG 77

TITLE: RECOMMENDED METHODS OF REDUCTION, NEUTRALIZATION, RECOVERY, OR DISPOSAL OF HAZARDOUS WASTE, VOL X: INDUSTRIAL AND MUNICIPAL DISPOSAL CANDIDATE WASTE STREAM CONSTITUENT PROFILE REPORTS. ORGANIC COMPOUNDS.

PERSONAL AUTHOR: OTTINGER, R. S.; AND OTHERS

DESCRIPTOR: *DISPOSAL; INDUSTRIAL WASTES; MUNICIPAL WASTES; *ORGANIC COMPOUNDS; POLLUTANTS (INDUSTRIAL); *TOXICOLOGY; *WASTEWATER DISPOSAL; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 314P.

ABSTRACT: THIS VOLUME CONTAINS SUMMARY INFORMATION AND EVALUATION OF WASTE MANAGEMENT METHODS FOR APPROXIMATELY TWO HUNDRED ORGANIC COMPOUNDS. INCLUDED ARE ALIPHATIC AND AROMATIC CARBONYL COMPOUNDS AND DERIVATIVES, ALIPHATIC HYDROCARBONS, CARBOXYLIC ACIDS, ALCOHOLS, ALIPHATIC AMINES, ESTERS, AND ALIPHATIC HALOGENATED HYDROCARBONS. THE REPORT CONTAINS A DISCUSSION OF THE WASTE STREAM CONSTITUENTS, THEIR TOXICOLOGY AND OTHER ASSOCIATED HAZARDS, THE DEFINITION OF ADEQUATE MANAGEMENT FOR THE WASTE MATERIAL, AN EVALUATION OF THE CURRENT WASTE MANAGEMENT PRACTICES, AND RECOMMENDATIONS AS TO THE MOST APPROPRIATE PROCESSING METHODS AVAILABLE AND WHETHER THE WASTE MATERIAL SHOULD BE CONSIDERED A CANDIDATE FOR NATIONAL, INDUSTRIAL, OR NUMICIPAL DISPOSAL. (AUTHOR/BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($11.75)

IRIS ACCESSION NUMBER: EW003046

PUBLICATION DATE: 75

TITLE: MECHANICAL SYSTEMS FOR THE RECOVERY OF OIL SPILLED ON WATER.

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *MECHANICAL EQUIPMENT; NATURAL RESOURCES; OCEAN ENGINEERING; *OCEANOLOGY; *PHYSICAL ENVIRONMENT; *POLLUTION; *WATER POLLUTION CONTROL; WATER QUALITY; *OIL SPILLS

ABSTRACT: REVIEWED IS AVAILABLE INFORMATION ON THE TECHNIQUES AND EQUIPMENT INVOLVED IN THE MECHANICAL RECOVERY OF OIL SPILLED ON WATER, WHETHER INLAND OR AT SEA. IT DOES NOT CONSIDER OTHER ALTERNATIVES. THE ASPECTS DISCUSSED INCLUDE OIL-CONTAINMENT BOOMS, SKIMMERS, TRANSFER PUMPS, TEMPORARY STORAGE, AND AUXILLARY CRAFT. EACH IS EXAMINED THOROUGHLY AND INFORMATION IS PROVIDED ON PREFERRED OPERATIONS AS REPORTED FROM EXPERIENCE. (CS)

AVAILABILITY: APPLIED SCIENCE PUBLISHERS, LTD., RIPPLE RD., BARKING, ESSEX, ENGLAND

INSTITUTION NAME: INSTITUTE OF PETROLEUM.

IRIS ACCESSION NUMBER: EW003047

PUBLICATION DATE: 76

TITLE: OIL AND HAZARDOUS MATERIALS: TECHNICAL ASSISTANCE DATA SYSTEM.

DESCRIPTOR: *BIBLIOGRAPHIES; BIOLOGY; CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *INFORMATION CENTERS; *INFORMATION SOURCES; NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; *OIL SPILLS; *HAZARDOUS WASTES; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 9P.

ABSTRACT: THIS DOCUMENT CONTAINS INFORMATION FOR UTILIZING THE INFORMATION RETRIEVAL SYSTEM ESTABLISHED BY THE US EPA, OIL AND SPECIAL MATERIALS CONTROL DIVISION. IT IS DESIGNED FOR BOTH ON-LINE RESPONSE TO SPILL INCIDENTS, AND FOR SUMMARY EVALUATION RELATING TO ENFORCEMENT AND RESEARCH ACTIVITIES. THE INFORMATION INCLUDES A WIDE VARIETY OF PHYSICAL, CHEMICAL, BIOLOGICAL, TOXICOLOGICAL, AND COMMERCIAL DATA. THERE IS AN EXTENSIVE BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: U.S. EPA, OIL AND SPECIAL MATERIALS CONTROL DIVISION (WH-548), 401 M ST., SW WASHINGTON, DC 20460 (FREE)

INSTITUTION NAME: U.S. EPA, OIL AND SPECIAL MATERIALS CONTROL DIVISION.

IRIS ACCESSION NUMBER: EW003048

PUBLICATION DATE: 06-25-78

TITLE: PROCEEDINGS OF AWWA SEMINAR ON WATER TREATMENT WASTE DISPOSAL.

DESCRIPTOR: *CASE HISTORIES; *CONFERENCES; POLLUTION; *RECYCLING; *SLUDGE; *TECHNOLOGY; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 100P.

ABSTRACT: THE PROCEEDINGS FROM A CONFERENCE ON WATER TREATMENT WASTE DISPOSAL ARE CONTAINED IN THIS DOCUMENT. EIGHT PAPERS ARE PRESENTED DESCRIBING CASE STUDIES INVESTIGATING MANAGEMENT, DISPOSAL, AND RECOVERY OF FACILITY PRODUCED SLUDGES. THE FORMAT OF THE PRESENTATIONS PROVIDE AN INTRODUCTION, MAIN DISCUSSION, CONCLUSIONS, AND REFERENCES. THE PAPERS ALSO PROVIDE A DISCUSSION OF THE ENVIRONMENTAL PROTECTION AGENCY'S WATER POLLUTION ABATEMENT PROGRAM AND THE IMPACT OF WASTE TREATMENT ON THE WATER SUPPLY INDUSTRY. (CS)

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235 ($8.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW003051

PUBLICATION DATE: 77

TITLE: WATER AND WASTEWATER TREATMENT: CALCULATIONS FOR CHEMICAL AND PHYSICAL PROCESSES.

PERSONAL AUTHOR: HUMENICK, MICHAEL J. JR.

DESCRIPTOR: *CALCULATION; ENGINEERING; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *LABORATORY PROCEDURES; *POLLUTION; *POST SECONDARY EDUCATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *WASTEWATER TREATMENT; *WATER TREATMENT; *MATHEMATICS; PROCESS CONTROL

DESCRIPTIVE NOTE: 236P.

ABSTRACT: THIS BOOK PRESENTS THE INFORMATION NEEDED BY AN ENVIRONMENTAL TECHNICIAN TO PERFORM THE PROCESS CALCULATIONS NECESSARY IN THE OPERATION OF WATER OR WASTEWATER TREATMENT FACILITIES. THE MATERIAL IS ORGANIZED SO AS A PROBLEM IS PRESENTED, THE SOLUTION FOLLOWS IMMEDIATELY. EACH TOPIC AREA HAS NUMEROUS PRACTICE EXAMPLES WITH SOLUTIONS AND ANSWERS. SUBJECT AREAS INCLUDE: COAGULATION AND FLOCCULATION; WATER CONDITIONING; SEDIMENTATION; FILTRATION; ACTIVATED CARBON ADSORPTION; CHLORINATION AND AERATION. THE APPENDICES CONTAIN INFORMATION REGARDING PHYSICAL AND CHEMICAL PROPERTIES, CONVERSION FACTORS, AND COMPUTER PROGRAMS. (CS)

AVAILABILITY: MARCEL DEKKER, 270 MADISON AVE., NEW YORK, NY 10016 ($19.75)

IRIS ACCESSION NUMBER: EW003052

PUBLICATION DATE: 73

TITLE: DAIRY WASTE MANAGEMENT.

PERSONAL AUTHOR: SENN, CHARLES L.

DESCRIPTOR: *AGRICULTURE; *DISPOSAL; FLIES; HEALTH; *LIVESTOCK; MAMMALS; *MANAGEMENT; ODORS; *SANITATION; PEST CONTROL; WASTEWATER TREATMENT; *DAIRY WASTE MANAGEMENT; *SOLID WASTES

ABSTRACT: THIS REPORT DISCUSSES THE MAJOR ENVIRONMENTAL PROBLEMS IN MANAGING SOLID WASTES PRODUCED BY HIGH-DENSITY COW HOUSING LOCATED IN CLOSE PROXIMITY TO RESIDENTIAL DEVELOPMENTS. INCLUDED IS AN EVALUATION OF THE VARIOUS TYPES OF COW HOUSING AND SOLID WASTE MANAGEMENT FACILITIES, FROM THE VIEWPOINT OF ENVIRONMENTAL AND ECONOMIC ACCEPTABILITY; ECONOMIC AND ENVIRONMENTAL EVALUATIONS OF THE VARIOUS SYSTEMS FOR UTILIZATION OR DISPOSAL OF DAIRY WASTES; DEVELOPMENT OF METHODS AND SYSTEMS WHICH WILL MINIMIZE FLY PRODUCTION, ODORS, AND DRAINAGE PROBLEMS FROM EARTH CORRAL DAIRIES, ESPECIALLY IN WET WEATHER; AND DEVELOPMENT OF A PROCESS FOR ECONOMICALLY AND EFFICIENTLY COMPOSTING MANURE ON EACH DAIRY. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($8.00)

IRIS ACCESSION NUMBER: EW003053

PUBLICATION DATE: DEC 73

TITLE: COST OF FILTER PRESSING DOMESTIC SEWAGE SLUDGES.

PERSONAL AUTHOR: MCMICHAEL, WALTER F.

DESCRIPTOR: *DEWATERING; *ECONOMICS; *FILTRATION; SEWAGE; *SLUDGE; *WASTEWATER SLUDGE; *WASTEWATER TREATMENT

ABSTRACT: ESTIMATES OF CAPITAL AND OPERATING COSTS AND OPERATING AND MAINTENANCE LABOR MAN HOURS ASSOCIATED WITH FILTER PRESSING OF TWO TYPES OF SLUDGE ARE PRESENTED. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

IRIS ACCESSION NUMBER: EW003054

PUBLICATION DATE: 73

TITLE: SEWAGE SLUDGE DISPOSAL IN A SANITARY LANDFILL, VOL. I: SUMMARY AND CONCLUSIONS.

DESCRIPTOR: *DISPOSAL; *LANDFILLS; LEACHING; ODOR; SANITATION; *SEPTIC TANKS; *SEWAGE; SLUDGE; TEMPERATURE; *WASTEWATER SLUDGE

ABSTRACT: THIS TWO VOLUME REPORT DESCRIBES THE RESULTS OF WORK CONDUCTED DURING THE FIRST TWO YEARS OF A THREE-YEAR DEMONSTRATION GRANT STUDY OF THE DISPOSAL OF LIQUID SEWAGE SLUDGE AND SEPTIC TANK PUMPINGS INTO SOLID WASTE AT A SANITARY LANDFILL. PILOT PLANT LYSIMETERS WERE USED TO INVESTIGATE THE EFFECTS OF SEWAGE AND SEPTIC TANK SLUDGES ON SOLID WASTE TEMPERATURE, DECOMPOSITION, LEACHATE SETTLEMENT, INSECTS, GASES, AND ODORS. THREE LARGE FIELD LYMIMETERS WERE MONITORED FOR LEACHATE TEMPERATURE, GAS COMPACTION, SETTLEMENT, AND WASTE DECOMPOSITION (AS DETERMINED BY CORE SAMPLING). THE FULL-SCALE DISPOSAL OF SLUDGE WAS MONITORED FOR RUNOFF, LEACHATE, EQUIPMENT OPERATION EFFICIENCY (TIME AND MOTION STUDIES), ODORS, VECTORS, BLOWING LITTER AND WEATHER CONDITIONS (RAINFALL, TEMPERATURE, WIND, AND EVAPORATION). (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

INSTITUTION NAME: RALPH STONE AND CO., INC.

IRIS ACCESSION NUMBER: EW003056

PUBLICATION DATE: 71

TITLE: WASTE STABILIZATION PONDS.

PERSONAL AUTHOR: GLOYNA, EARNEST F.

DESCRIPTOR: BIOLOGICAL REACTIONS; DISEASE CONTROL; *ENGINEERING TECHNOLOGY; ENVIRONMENTAL INFLUENCES; LAND USE; *MANAGEMENT SYSTEMS; POLLUTION; *PUBLIC HEALTH; *REFERENCE MATERIALS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTE STABILIZATION PONDS; *WASTEWATER TREATMENT; *LAGOONS

ABSTRACT: THIS MONOGRAPH SUMMARIZES THE AVAILABLE INFORMATION ON WASTE STABILIZATION PONDS. IT DEFINES ACCEPTABLE DESIGN CRITERIA BASED ON PUBLIC HEALTH CONSIDERATIONS, SUGGESTS ALTERNATIVE APPROACHES TO DESIGN, PROVIDES DATA ON POND DESIGN, AND DEALS WITH THE OPERATIONAL PROBLEMS THAT ULTIMATELY DETERMINE THE SUCCESS OR FAILURE OF ANY WASTEWATER TREATMENT FACILITY. A BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: WHO, GENEVA, SWITZERLAND ($8.00)

IRIS ACCESSION NUMBER: EW003058

PUBLICATION DATE: NOV 77

TITLE: LAND APPLICATION OF WASTEWATER AND STATE WATER LAW: AN OVERVIEW, VOL. I.

PERSONAL AUTHOR: LARGE, DONALD W.

DESCRIPTOR: *ENVIRONMENTAL CRITERIA; *LAND USE; POLLUTION; PUBLIC HEALTH; RESEARCH; SANITATION; *STATE LEGISLATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 71P. ORDER NO. PB 277 120; FOR VOLUME II SEE EW003261

ABSTRACT: THIS DOCUMENT DESCRIBES THE RESEARCH UNDERTAKEN TO ANALYZE STATE WATER RIGHTS LAW TO DETERMINE ITS POSSIBLE IMPACT ON SYSTEMS OF LAND APPLICATION OF WASTEWATER. SEVERAL BASIC DICHOTOMIES WERE NOTED WHICH COULD HAVE SOME IMPACT ON THE TREATMENT OF LAND APPLICATION SYSTEMS. THERE IS THE BASIC DISTINCTION BETWEEN THE RIPARIAN STATES AND THE APPROPRIATION STATES AS WELL AS THE DISTINCTIONS BETWEEN NATURAL WATER COURSES, SURFACE WATERS, AND GROUNDWATER. FOR THE MOST PART, STATE WATER RIGHTS LAW WAS FOUND TO CONTAIN ENOUGH FLEXIBILITY TO ENABLE LAND APPLICATION SYSTEMS TO OPERATIE FREE FROM LEGAL UNCERTAINTY. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

INSTITUTION NAME: ROBERT S. KERR ENVIRONMENTAL RESEARCH LAB.

IRIS ACCESSION NUMBER: EW003059

PUBLICATION DATE: 78

TITLE: WATER POLLUTION MICROBIOLOGY, VOL. 2

PERSONAL AUTHOR: MITCHELL, RALPH, ED.

DESCRIPTOR: BIOCHEMISTRY; *COLLEGE SCIENCE; DISEASE CONTROL; ECOLOGY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; NATURAL RESOURCES; *POLLUTION; *PUBLIC HEALTH; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 442P.

ABSTRACT: THIS VOLUME CONTAINS INFORMATION FOR ENVIRONMENTAL AND SANITARY ENGINEERS, PUBLIC HEALTH SCIENTISTS, AND MICROBIOLOGISTS CONCERNED WITH WATER POLLUTION. IT EXAMINES MICROORGANISMS AS CAUSATIVE AGENTS OF ECOLOGICAL AND PUBLIC HEALTH HAZARDS IN NATURAL WATERS, AND TREATS THE USE OF MICROORGANISMS IN POLLUTION CONTROL FROM A VARIETY OF PERSPECTIVES. (CS)

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, NJ 08873 ($24.95)

IRIS ACCESSION NUMBER: EW003060

PUBLICATION DATE: 78

TITLE: INDIVIDUAL ONSITE WASTEWATER SYSTEMS.

PERSONAL AUTHOR: MCCLELLAND, NINA I., ED.

DESCRIPTOR: CERTIFICATION; CONSERVATION; *CONFERENCES; ENVIRONMENTAL INFLUENCES; LAND USE; MANAGEMENT; *POLLUTION; *PUBLIC HEALTH; RECYCLING; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *FACILITIES (WASTEWATER); *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 238P.

ABSTRACT: THIS PUBLICATION PRESENTS THE PROCEEDINGS OF THE FOURTH NATIONAL CONFERENCE SPONSORED BY THE NATIONAL SANITATION FOUNDATION AND THE US ENVIRONMENTAL PROTECTION AGENCY. THE INFORMATION PRESENTED ADDRESSES A WIDE VARIETY OF ASPECTS REGARDING INDIVIDUAL ONSITE WASTEWATER SYSTEMS. THESE ASPECTS INCLUDE CONSTRUCTION GRANTS, MANAGEMENT CONCEPTS, CERTIFICATION REQUIREMENTS, PUBLIC ACCEPTANCE, AND CASE STUDIES AND EXPERIENCES WITH SYSTEMS INSTALLED TO DATE. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($22.50)

IRIS ACCESSION NUMBER: EW003061

PUBLICATION DATE: 78

TITLE: MODERN METHODS FOR TRACE ELEMENT ANALYSIS.

PERSONAL AUTHOR: PINTA, MAURICE

DESCRIPTOR: BIOLOGY; *CHEMICAL ANALYSIS; *CHEMISTRY; ENVIRONMENTAL INFLUENCES; *EVALUATION METHODS; INDUSTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY METHODS; *POLLUTION; *QUALITY CONTROL; RESEARCH

DESCRIPTIVE NOTE: 492P.

ABSTRACT: THIS BOOK PROVIDES INFORMATION ON THE PRINCIPAL METHODS AND TECHNIQUES IN USE TODAY FOR DETERMINATION OF TRACE ELEMENTS IN VARIOUS MEDIA. METHODS PRESENTED ARE HIGHLY SENSITIVE AND MULTI-ELEMENTAL. VERY SPECIALIZED TECHNIQUES OR THOSE REQUIRING COMPLEX HANDLING PROCEDURES HAVE BEEN ELIMINATED. FOR EACH TECHNIQUE PRESENTED, THE AUTHOR STATES THE BASIC PRINCIPLES, EXPLAINS THE PRACTICAL REQUIREMENTS, AND GIVES EXAMPLES OF SPECIFIC APPLICATIONS. THE TEXT INCLUDES: FLUOROMETRY, EMISSION SPECTROSCOPY, FLAME AND NON-FLAME ATOMIC ABSORPTION SPECTROMETRY, X-RAY FLUORESCENCE SPECTROMETRY AND ACTIVATION ANALYSIS. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($29.50)

IRIS ACCESSION NUMBER: EW003062

PUBLICATION DATE: 76

TITLE: CARBONATE CHEMISTRY OF AQUATIC SYSTEMS: THEORY AND APPLICATION.

PERSONAL AUTHOR: LOEWENTHAL, R. E.; AND OTHERS

DESCRIPTOR: *CHEMICAL EQUILIBRIUM; CHEMICAL REACTIONS; *CHEMISTRY; *COLLEGE SCIENCE; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *POLLUTION; PUBLIC HEALTH; *SCIENTIFIC RESEARCH; *WATER; *CARBONATES; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 433P.

ABSTRACT: THIS VOLUME FORMULATES A PRACTICAL APPROACH TO THE EQUILIBRIUM CHEMISTRY OF THE CALCIUM-MAGNESIUM-CARBONIC SYSTEM IN TERRESTRIAL WATERS. PROBLEMS IN WATER BLENDING, STABILIZATION, WATER SOFTENING AND WATER QUALITY CHANGES ARISING FROM AERATION ARE ANALYZED USING EQUILIBRIUM CHEMISTRY. BASIC CONCEPTS SUCH AS ALKALINITY, ACIDITY, BUFFER CAPACITY, TITRATION CURVES AND EQUILIBRIA EQUATIONS ARE GRAPHICALLY MODELED. THIS VOLUME DEALS WITH THE SYSTEM CHARACTERISTICS IN WATER OF LOW IONIC SPRENGTH WHERE ION PAIRING CAN BE NEGLECTED. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($22.50)

IRIS ACCESSION NUMBER: EW003063

PUBLICATION DATE: 76

TITLE: IDENTIFICATION AND ANALYSIS OF ORGANIC POLLUTANTS IN WATER.

PERSONAL AUTHOR: KEITH, LAWRENCE H.

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMISTRY; *CHROMATOGRAPHY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *ORGANIC CHEMISTRY; *POLLUTION; PUBLIC HEALTH; RESEARCH; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 718P.

ABSTRACT: THIS BOOK PRESENTS INFORMATION NEW TO THE FIELD OF ENVIRONMENTAL CHEMISTRY AS IT RELATES TO IDENTIFICATION OF NEW COMPOUNDS AND ADVANCES IN INSTRUMENTATION, ESPECIALLY COMPUTER-ASSISTED GAS CHROMATOGRAPHY/MASS SPECTROMETRY. THE 36 CHAPTERS ARE ORGANIZED INTO THREE SECTIONS: (1) CHEMISTRY OF POLLUTANTS; (2) TECHNIQUES AND METHODS OF ANALYSES; AND (3) IDENTIFICATION OF ORGANIC POLLUTANTS. INFORMATION CONTAINED IN THIS DOCUMENT WILL PROVIDE A BASIS FOR MORE ACCURATE MONITORING, POLLUTION TREATMENT AND CONTROL, AND EVALUATION OF ENVIRONMENTAL HEALTH EFFECTS. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($27.50)

IRIS ACCESSION NUMBER: EW003064

PUBLICATION DATE: 74

TITLE: MANUAL OF GREY WATER TREATMENT PRACTICE.

PERSONAL AUTHOR: WINNEBERGER, JOHN H. TIMOTHY, ED.

DESCRIPTOR: ENVIRONMENTAL CRITERIA; *INSTRUCTIONAL MATERIALS; LAND USE; *POLLUTION; PUBLIC HEALTH; *POST SECONDARY EDUCATION; RECYCLING; SANITATION; *SOILS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *SEPTIC TANKS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 102P.

ABSTRACT: CONVENTIONAL SEPTIC TANK TECHNOLOGY IS EXAMINED. PROPOSED IS REVISED TECHNOLOGY IN WHICH TOILET WASTES ARE DISPOSED OF USING NON-WATER FLUSHING SYSTEMS, WHILE OTHER WASTES ARE EFFECTIVELY ELIMINATED AND CONTROLLED USING SMALLER SEPTIC TANKS AND LEACH FIELDS. THE AUTHOR PROVIDES RESEARCH EVIDENCE TO SUPPORT THE RECOMMENDATIONS OFFERED REGARDING ON-SITE TREATMENT AND SUBSURFACE DISPOSAL, AND CHARACTERIZATION OF GREY WATER AND SOIL MANTLE PURIFICATION. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($12.50)

IRIS ACCESSION NUMBER: EW003065

PUBLICATION DATE: 76

TITLE: SEWAGE TREATMENT: BASIC PRINCIPLES AND TRENDS.

PERSONAL AUTHOR: BOLTON, R. L.; KLEIN, L.

DESCRIPTOR: CALCULATION; *CHEMICAL ANALYSIS; CHEMISTRY; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; MEASUREMENT TECHNIQUES; POLLUTION; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; *WASTE DISPOSAL; WATER QUALITY; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 256P.

ABSTRACT: PROVIDED IS INFORMATION ON THE BASIC PRINCIPLES OF THE PROCESSES OF SEWAGE TREATMENT, ESPECIALLY AS IT RELATES TO THE CHEMISTRY OF SEWAGE TREATMENT. THE TEXT DISCUSSES THE NATURE OF SEWAGE AND CHEMICAL ANALYSIS AND THEN PROCEEDS THROUGH THE TREATMENT PROCESSES TO FINAL DISPOSAL. THE LAST CHAPTERS DEAL WITH CURRENT TRENDS IN THE FIELD OF WATER POLLUTION CONTROL AND WITH CHEMICAL CALCULATIONS. CONVERSION TABLES FOR BRITISH METRIC UNITS ARE INCLUDED IN THE APPENDIX.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($16.50)

IRIS ACCESSION NUMBER: EW003066

PUBLICATION DATE: 76

TITLE: HANDBOOK OF VENTILATION FOR CONTAMINANT CONTROL.

PERSONAL AUTHOR: MCDERMOTT, HENRY J.

DESCRIPTOR: ECONOMICS; *ENVIRONMENT; EQUIPMENT; *GASES; INDUSTRY; *POLLUTION; *SAFETY; *STANDARDS; *VENTILATION; *OCCUPATIONAL SAFETY AND HEALTH ACT

DESCRIPTIVE NOTE: 400P.

ABSTRACT: THIS BOOK IS DESIGNED TO COVER THE TECHNOLOGY OF INDUSTRIAL EXHAUST VENTILATION FOR CONTAMINANT CONTROL AND PROVIDE A SUMMARY AND EXPLANATION OF OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS. IT EXPLAINS WHAT THOSE RESPONSIBLE FOR IMPLEMENTING AND MEETING OSHA STANDARDS HAVE TO KNOW IN CONNECTION WITH EXHAUST VENTILATION, AND IT SUPPLIES GUIDELINES FOR DETERMINING WHETHER OR NOT STANDARDS ARE BEING MET. FURTHER, IT GIVES DETAILED INSTRUCTIONS FOR DESIGNING AND INSTALLING PRACTICAL AND ECONOMICAL VENTILATION SYSTEMS THAT SATISFY OSHA REQUIREMENTS AS WELL AS HEALTH AND SAFETY NEEDS OF EMPLOYEES. INCLUDED IN THE BOOK ARE CHAPTERS ON OSHA VENTILATION STANDARDS, HAZARD ASSESSMENT, HOW LOCAL EXHAUST SYSTEMS WORK, HOOD SELECTION AND DESIGN, VENTILATION SYSTEM DESIGN, FANS, VENTILATION FOR HIGH TOXICITY OR NUISANCE CONTAMINANTS, SAVING VENTILATION DOLLARS, TESTING AND SOLVING VENTILATION SYSTEM PROBLEMS. (BB)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($29.50)

IRIS ACCESSION NUMBER: EW003067

PUBLICATION DATE: 76

TITLE: HANDBOOK OF TASTE AND ODOR CONTROL EXPERIENCES IN THE US AND CANADA.

DESCRIPTOR: *CONFERENCES; *ENVIRONMENTAL INFLUENCES; MUNICIPALITIES; *POLLUTION; PUBLIC HEALTH; *RESEARCH; *UTILITIES; WATER QUALITY; *WATER POLLUTION CONTROL; *ODOR; OPERATIONS (WATER); *TASTE; *WATER TREATMENT

ABSTRACT: THIS DOCUMENT PRESENTS THE REPORTS AND DISCUSSIONS OF PARTICIPANTS AT A SYMPOSIUM OF THE AMERICAN WATER WORKS ASSOCIATION RESEARCH FOUNDATION HELD FOR THE PURPOSE OF CONSIDERING THE MATTER OF TASTE AND ODOR FROM THE VIEW OF THOSE CHARGED WITH WATER TREATMENT. THIS HANDBOOK ALSO PRESENTS FIVE OF THE PRINCIPAL PROJECT PROPOSALS THAT RESULTED FROM THE MEETING DISCUSSIONS AND THE REPORT OF THE QUESTIONAIRE SURVEY OF TASTE AND ODOR PROBLEMS IN THE U. S. AND CANADA DISTRIBUTED BY THE AWWA PRIOR TO THE MEETING. (CS)

AVAILABILITY: AMERICAN WATER WORKS ASSOC., RESEARCH FOUNDATION, 6666 W QUINCY AVENUE, DENVER, CO 80235 ($8.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW003069

ERIC ACCESSION NUMBER: ED160471

PUBLICATION DATE: AUG 72

TITLE: WATER CHEMISTRY LABORATORY MANUAL.

PERSONAL AUTHOR: JENKINS, DAVID; AND OTHERS

INSTITUTION CODE: BBB04927

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: *CHEMISTRY; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; POLLUTION; POSTSECONDARY EDUCATION; PUBLIC HEALTH; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 196P.

ISSUE: RIEFEB79

ABSTRACT: THIS MANUAL OF LABORATORY EXPERIMENTS IN WATER CHEMISTRY SERVES A DUAL FUNCTION OF ILLUSTRATING FUNDAMENTAL CHEMICAL PRINCIPLES OF DILUTE AQUEOUS SYSTEMS AND OF PROVIDING THE STUDENT WITH SOME FAMILIARITY WITH THE CHEMICAL MEASUREMENTS COMMONLY USED IN WATER AND WASTEWATER ANALYSIS. EXPERIMENTS ARE GROUPED IN CATEGORIES ON THE BASIS OF SIMILAR GENERAL CHEMICAL PRINCIPLES SUCH AS ACID-BASE REACTIONS, PRECIPITATION, AND REDOX EQUILIBRIA. THE GENERAL CONCEPTS OF GRAVIMETRY, SPECTROSCOPY, CONDUCTIVITY, AND KINETIC AND EQUILIBRIUM PHENOMENA ARE ALSO COVERED. IN EACH CATEGORY OF EXPERIMENTS TECHNIQUES COMMONLY USED IN WATER AND WASTEWATER ANALYSIS ARE INCLUDED. (CS)

GRANT NUMBER: EPA-1-P-4WP-309-01

AVAILABILITY: AMERICAN ASSOC. OF PROFESSORS IN SANITARY ENGINEERING, C/O J. F. ANDREWS, DEPT. OF CIVIL ENGINEERING, UNIV. OF HOUSTON, HOUSTON, TX 77004 (NO PRICE QUOTED)

INSTITUTION NAME: AMERICAN ASSOCIATION OF PROFESSORS IN SANITARY ENGINEERING.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003070

PUBLICATION DATE: 77

TITLE: WATER FOR THE THOUSAND MILLIONS.

PERSONAL AUTHOR: PACEY, ARNOLD, ED.

DESCRIPTOR: *DEVELOPING NATIONS; *ENVIRONMENTAL EDUCATION; HEALTH CONDITIONS; NATURAL RESOURCES; POLICY FORMATION; SCIENCE EDUCATION; *SANITATION; *TECHNOLOGY; WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER SUPPLY

ABSTRACT: THIS BOOKLET REPRESENTS AN ARTICLE WRITTEN FOR THE UNITED NATIONS WATER CONFERENCE. IT ATTEMPTS TO EMPHASIZE ASPECTS OF WATER RESOURCE TECHNOLOGY THAT ARE THE MOST NEGLECTED. THE TOPICS COVERED INCLUDE: (1) WATER SUPPLY OBJECTIVES AND CRITERIA OF APPROPRIATENESS; (2) TECHNICALLY APPROPRIATE WATER SUPPLIES (HEALTH AND SANITARY, FUNCTIONAL, ENVIRONMENTAL); (3) SOCIALLY APPROPRIATE WATER SUPPLIES; AND (4) ECONOMICALLY APPROPRIATE WATER SUPPLIES. POLICIES OF DEVELOPING NATIONS ARE EXAMINED ALONG WITH THE ROLE OF INTERMEDIATE TECHNOLOGIES IN WATER USE. (MA)

AVAILABILITY: PERGAMON PRESS CO., INC., MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($4.00)

IRIS ACCESSION NUMBER: EW003071

ERIC ACCESSION NUMBER: ED152490

PUBLICATION DATE: FEB 76

TITLE: WATER POLLUTION: PART I, MUNICIPAL WASTEWATERS; PART II, INDUSTRIAL WASTEWATERS.

PERSONAL AUTHOR: FOWLER, K. E. M.

INSTITUTION CODE: BBB13252

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; HEALTH; POLLUTION; REFERENCE MATERIALS; *RESOURCE MATERIALS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 190P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS PUBLICATION IS AN ANNOTATED BIBLIOGRAPHY OF MUNICIPAL AND INDUSTRIAL WASTEWATER LITERATURE. THIS PUBLICATION CONSISTS OF TWO PARTS PLUS APPENDICES. PART ONE IS ENTITLED MUNICIPAL WASTEWATERS AND INCLUDES PUBLICATIONS IN SUCH AREAS AS HEALTH EFFECTS OF POLLUTED WATERS, FEDERAL POLICY AND LEGISLATION, BIOLOGY AND CHEMISTRY OF POLLUTED WATER, MUNICIPAL WASTEWATER TREATMENT, RECYCLING AND REUSE OF MUNICIPAL WASTEWATER AND EUTROPHICATION. PART TWO IS ENTITLED INDUSTRIAL WASTEWATERS AND INCLUDES PUBLICATIONS IN SUCH AREAS AS MAJOR INDUSTRIAL USES OF WATER, WATER FOR POWER AND ENERGY, PRODUCTION OF PAPER AND ALLIED PRODUCTS, AGRICULTURE, AND OIL SPILLS. FOR EACH ENTRY, IN BOTH PARTS, AUTHOR,PUBLISHER, POINT OF VIEW, LEVEL, AND SUMMARY ARE GIVEN. APPENDIX A IS A CONTINUATION OF THE BIBLIOGRAPHY INTO SUGGESTED STUDENT READINGS ON WASTEWATER MANAGEMENT. APPENDIX B IS A REGULAR BIBLIOGRAPHY OF TEXTBOOKS AND HANDBOOKS ON WASTEWATER MANAGEMENT. APPENDIX C DISCUSSES THE AVAILABILITY OF RELEVANT GOVERNMENT REPORTS. (MR)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003072

ERIC ACCESSION NUMBER: ED152501

PUBLICATION DATE: 75

TITLE: NTTC COURSE 315: ADVANCED WATER EXAMINATION.

INSTITUTION CODE: BBB02816

DESCRIPTOR: ENVIRONMENTAL TECHNICIANS; *EVALUATION; *INDIVIDUALIZED INSTRUCTION; INSTRUCTION; *JOB TRAINING; *MULTIPLE CHOICE TESTS; POST SECONDARY EDUCATION; *TESTS; WATER POLLUTION CONTROL; *WATER RESOURCES; NAVY; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 37P.; FOR RELATED DOCUMENT, SEE SE 023 888; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS PUBLICATION IS THE EXAMINATION BOOKLET USED FOR A HOME STUDY COURSE IN WATER TREATMENT. THIS COURSE IS THE ADVANCED PART OF A SERIES PRODUCED BY THE DEPARTMENT OF THE NAVY. THIS PUBLICATION IS DESIGNED TO BE USED IN CONJUNCTION WITH A COURSE TEXTBOOK. EACH OF THE FOUR EXAMINATIONS CONTAINED IN THIS DOCUMENT ARE REFERENCED TO A SPECIFIC SECTION OF THE TEXT. ALL OF THE QUESTIONS ARE MULTIPLE CHOICE AND ARE COGNITIVE OR PROBLEM SOLVING TYPE QUESTIONS. EACH OF THE EXAMINATIONS CONTAINS 35 QUESTIONS. MANY OF THE QUESTIONS HAVE TO DO WITH WATER TREATMENT AND WATER POLLUTION CHEMISTRY AND WITH WATER TREATMENT TESTS AND EQUIPMENT USAGE. (MR)

REPORT NUMBER: NAVFAC-P-350

INSTITUTION NAME: DEPARTMENT OF THE NAVY, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003073

ERIC ACCESSION NUMBER: ED152502

PUBLICATION DATE: 75

TITLE: NTTC COURSE 215: INTERMEDIATE WATER EXAMINATION.

INSTITUTION CODE: BBB02816

DESCRIPTOR: ENVIRONMENTAL TECHNICIANS; *EVALUATION; *INDIVIDUALIZED INSTRUCTION; INSTRUCTION; *JOB TRAINING; *MULTIPLE CHOICE TESTS; POST SECONDARY EDUCATION; *TESTS; WATER POLLUTION CONTROL; *WATER RESOURCES; NAVY; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 23P.; FOR RELATED DOCUMENT, SEE SE 023 887; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS PUBLICATION IS THE EXAMINATION BOOKLET USED FOR A HOME STUDY COURSE IN WATER TREATMENT. THIS COURSE IS THE INTERMEDIATE PART OF A SERIES PRODUCED BY THE DEPARTMENT OF THE NAVY. THIS PUBLICATION IS DESIGNED TO BE USED IN CONJUNCTION WITH A TEXTBOOK. EACH OF THE TWO EXAMINATIONS CONTAINED IN THIS DOCUMENT ARE REFERENCED TO A SECTION OF THE TEXT. THE FIRST EXAMINATION CONTAINS 40 QUESTIONS AND THE SECOND CONTAINS 45 QUESTIONS. ALL OF THE QUESTIONS ARE MULTIPLE CHOICE AND ARE COGNITIVE TYPE QUESTIONS WITH A FEW PROBLEM SOLVING TYPE QUESTIONS. MANY OF THE QUESTIONS RELATE TO HYDROLOGY AND WATER TREATMENT PHYSICS AS WELL AS WATER TREATMENT EQUIPMENT USAGE. (MR)

REPORT NUMBER: NAVFAC-P-334

INSTITUTION NAME: DEPARTMENT OF THE NAVY, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003074

ERIC ACCESSION NUMBER: ED152572

PUBLICATION DATE: SEP 77

TITLE: FLOW MEASUREMENT. TRAINING MODULE 3.315.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *MEASUREMENT TECHNIQUES; POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; DISTRIBUTION SYSTEMS; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 81P.; FOR RELATED DOCUMENTS, SEE SE 024 139-165; PAGE 27 MISSING FROM DOCUMENT PRIOR TO ITS BEING SHIPPED TO EDRS FOR FILMING; BEST COPY AVAILABLE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE PRINCIPLES OF LIQUID FLOW AND THE METHODS OF MEASURING OPEN CHANNEL AND FUEL PIPE FLOW RATES. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THE MODULE ADDRESSES THE BASIC FLOW FORMULA, AND MEASUREMENT OF FLOW RATES USING A BATCH METHOD, PARSHALL FLUME, WEIRS, PARTIALLY FILLED PIPE, VENTURE METERS, MAGNETIC FLOW METER, ROTOMETER AND ULTRASONIC VELOCITY SENSING METHODS. (AUTHOR)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003075

ERIC ACCESSION NUMBER: ED152573

PUBLICATION DATE: SEP 77

TITLE: PREVENTIVE MAINTENANCE. TRAINING MODULE 3.320.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; PREVENTIVE MAINTENANCE; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 82P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CHARTS AND GRAPHS MARGINALLY LEGIBLE; PAGE 28 REMOVED DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH PREVENTIVE MAINTENANCE METHODS AND PROCEDURES IN A WATER OR WASTEWATER TREATMENT SYSTEM. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, AND STUDENT HANDOUTS. THIS MODULE INCLUDES CONCEPTS OF PREVENTIVE MAINTENANCE, SETTING UP A RECORD SYSTEM, USE OF TOOLS AND INSTRUMENTS, AND USE OF OPERATION AND MAINTENANCE MANUALS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003076

ERIC ACCESSION NUMBER: ED152574

PUBLICATION DATE: SEP 77

TITLE: BASIC ELECTRICITY. TRAINING MODULE 3.325.1.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *ELECTRICITY; ELECTRIC MOTORS; *INSTRUCTIONAL MATERIALS; *PHYSICAL SCIENCES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 81P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE BASIC CONCEPTS OF ELECTRICITY AS APPLIED TO WATER AND WASTEWATER TREATMENT. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS DEFINITION OF TERMS, VOLTAGE, CURRENT MEASUREMENT, AND POWER, AND INCLUDES A BRIEF DISCUSSION OF MOTORS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003077

ERIC ACCESSION NUMBER: ED152575

PUBLICATION DATE: SEP 77

TITLE: MANHOLE SAFETY. TRAINING MODULE 3.330.1.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *SEWERS; *WASTEWATER COLLECTION; WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 37P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; PAGES 15-26 - ILLUSTRATIONS OF HOW TO BLOCK-OFF TRAFFIC WHEN WORKING ON ROAD - REMOVED PRIOR TO BEING SHIPPED TO EDRS FOR FILMING DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE USE OF SAFETY EQUIPMENT TO PREVENT ACCIDENTS, INJURY AND LOSS OF LIFE TO PERSONNEL WHILE INSPECTING OR WORKING IN SEWER MANHOLES OR IN CONFINED AREAS OF WASTEWATER TREATMENT PLANT. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS PURPOSES AND TYPES OF MANHOLES, A SAFETY CHECKLIST, AND PROPER USE OF SAFETY EQUIPMENT. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003078

ERIC ACCESSION NUMBER: ED152576

PUBLICATION DATE: SEP 77

TITLE: FINANCIAL. TRAINING MODULE 4.310.3.77.

PERSONAL AUTHOR: MILLER, PAT; BONNSTETTER, RON

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *BUDGETING; *ECONOMICS; FINANCIAL SERVICES; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 82P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; SOME CHARTS AND GRAPHS MARGINALLY LEGIBLE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH INVENTORY RECORDS, PURCHASING AND BUDGETING FOR WATER AND WASTEWATER TREATMENT PLANTS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS METHODS OF INVENTORY CONTROL, PROPER PURCHASING PROCEDURES AND BUILDING AND LIVING WITHIN A BUDGET. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003079

ERIC ACCESSION NUMBER: ED152577

PUBLICATION DATE: SEP 77

TITLE: LEGAL. TRAINING MODULE 4.315.3.77.

PERSONAL AUTHOR: FILLENWARTH, LYNN; BONNSTETTER, RON

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *FEDERAL LEGISLATION; *INSTRUCTIONAL MATERIALS; LAWS; *MANAGEMENT; POST SECONDARY EDUCATION; SECONDARY EDUCATION; *STATE LEGISLATION; *TEACHING GUIDES; UNITS OF STUDY; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 76P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; SOME CHARTS AND GRAPHS MARGINALLY LEGIBLE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH FEDERAL AND IOWA LAWS RELATING TO PUBLIC WATER SUPPLY AND WATER POLLUTION CONTROL, LOCAL CODE ENFORCEMENT AND RIGHT-OF-WAY ACQUISITION. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, AND STUDENT HANDOUTS. THE MODULE CONSIDERS AN OVERVIEW OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE IOWA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ), AND ANALYZES THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 (PL 92-500), OF THE FEDERAL SAFE DRINKING WATER ACT (PL 93-523), AND THE IOWA ADMINISTRATIVE CODE PERTAINING TO WATER POLLUTION CONTROL AND PUBLIC WATER SUPPLIES. THIS MODULE ALSO COVERS THE ACQUISITION OF RIGHT-OF-WAY BY A MUNICIPALITY AND THE FUNCTION OF MUNICIPAL ORDINANCES. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003080

ERIC ACCESSION NUMBER: ED152578

PUBLICATION DATE: SEP 77

TITLE: PUBLIC RELATIONS. TRAINING MODULE 4.320.3.77.

PERSONAL AUTHOR: WADDELL, BOB; BONNSTETTER, RON

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *COMMUNICATION SKILLS; HUMAN RELATIONS; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *POST SECONDARY EDUCATION; *PUBLIC RELATIONS; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 72P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH PUBLIC RELATIONS ASPECTS OF WATER AND WASTEWATER TREATMENT PLANT MANAGEMENT. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THE MODULE IS DIVIDED INTO THREE SUB-MODULES ADDRESSING CUSTOMER RELATIONS, COMPLAINT HANDLING AND PUBLIC SPEAKING. IT ENTAILS METHODS, CIRCUMSTANCES, ATTITUDES AND OPPORTUNITIES TO AFFECT PUBLIC OPINION FAVORABLY. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON,

D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003081

ERIC ACCESSION NUMBER: ED152579

PUBLICATION DATE: SEP 77

TITLE: PERSONNEL. TRAINING MODULE 4.325.3.77.

PERSONAL AUTHOR: GUGE, DALE; BONNSTETTER, RON

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: HUMAN RELATIONS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *PERSONNEL MANAGEMENT; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; SUPERVISION; *TEACHING GUIDES; UNITS OF STUDY; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 139P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH PERSONNEL MANAGEMENT IN WATER AND WASTEWATER PLANT OPERATIONS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS LONG RANGE AND SHORT RANGE PLANNING, SUPERVISORY RESPONSIBILITIES, EMPLOYEE MANAGEMENT AND EVALUATION, EMPLOYEE TRAINING AND CONTRACTOR SUPERVISION. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003082

ERIC ACCESSION NUMBER: ED152580

PUBLICATION DATE: SEP 77

TITLE: OSHA, TRAINING MODULE 4.330.3.77.

PERSONAL AUTHOR: FILLENWARTH, LYNN; BONNSTETTER, RON

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: FEDERAL LEGISLATION; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *POST SECONDARY EDUCATION; *SAFETY; SECONDARY EDUCATION; STATE LEGISLATION; *TEACHING GUIDES; UNITS OF STUDY; *OCCUPATIONAL HEALTH AND SAFETY ACT; WASTEWATER TREATMENT; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 53P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE FEDERAL AND IOWA OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA). INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, AND STUDENT HANDOUTS. THIS MODULE INCLUDES AN OVERVIEW OF OSHA ADMINISTRATION, ANALYSIS OF OSHA STANDARDS INCLUDING RECORDKEEPING REQUIREMENTS, INSPECTIONS, VIOLATIONS, CITATIONS, PENALTIES AND RIGHT TO APPEAL, AND USE OF THE OSHA MANUAL. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003083

ERIC ACCESSION NUMBER: ED152581

PUBLICATION DATE: SEP 77

TITLE: AMMONIA. TRAINING MODULE 5.110.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; WATER POLLUTION CONTROL; *AMMONIA; WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 62P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH ANALYTICAL PROCEDURES FOR DETERMINING AMMONIA NITROGEN CONCENTRATIONS IN A WATER OR WASTEWATER SAMPLE. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS PRELIMINARY DISTILLATION PROCEDURES AND NESSLERIZATION, TITREMETRIC AND SELECTIVE ION ELECTRODE ANALYTICAL METHODS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003084

ERIC ACCESSION NUMBER: ED152582

PUBLICATION DATE: SEP 77

TITLE: BIOCHEMICAL OXYGEN DEMAND AND DISSOLVED OXYGEN. TRAINING MODULE 5.105.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *OXYGEN; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 45P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE AZIDE MODIFICATION OF THE WINKLER DISSOLVED OXYGEN TEST AND THE ELECTRONIC DISSOLVED OXYGEN METER TEST PROCEDURES FOR DETERMINING THE DISSOLVED OXYGEN AND THE BIOCHEMICAL OXYGEN DEMAND OF A WASTEWATER SAMPLE. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS SAMPLING, TEST PROCEDURES AND GRADUATED CYLINDER AND DIRECT DILUTION METHODS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003085

ERIC ACCESSION NUMBER: ED152583

PUBLICATION DATE: SEP 77

TITLE: CALCIUM ANALYSIS. TRAINING MODULE 5.225.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *CALCIUM; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 26P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; TRANSPARENCY MASTERS MARGINALLY LEGIBLE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE TITRIMETRIC METHOD FOR DETERMINING CALCIUM CONCENTRATIONS IN WATER. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEOTAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS THE CHEMISTRY AND PRINCIPLES OF THE DETERMINATION, PREPARATION OF REAGENTS, TITRATION OF THE SAMPLE AND CALCULATION AND INTERPRETATION OF RESULTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003086

ERIC ACCESSION NUMBER: ED152584

PUBLICATION DATE: SEP 77

TITLE: CHEMICAL OXYGEN DEMAND. TRAINING MODULE 5.107.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; WATER POLLUTION CONTROL; *CHEMICAL OXYGEN DEMAND; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 27P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH STANDARD METHOD PROCEDURES FOR DETERMINING THE CHEMICAL OXYGEN DEMAND (COD) OF A WASTEWATER SAMPLE. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS ANALYTICAL PROCEDURES, PREPARATION OF REAGENTS AND INTERPRETATION OF RESULTS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003087

ERIC ACCESSION NUMBER: ED152585

PUBLICATION DATE: SEP 77

TITLE: CHLORINE ANALYSIS - WASTEWATER. TRAINING MODULE 5.125.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; WATER POLLUTION CONTROL; *CHLORINE; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 35P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE LABORATORY PROCEDURES FOR DETERMINING THE COMBINED CHLORINE RESIDUAL OF A WASTEWATER SAMPLE. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS THE AMPEROMETRIC, DPD, ELECTRODE AND COLOR COMPARATOR KIT METHODS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003088

ERIC ACCESSION NUMBER: ED152586

PUBLICATION DATE: SEP 77

TITLE: CHLORINE ANALYSIS - WATER. TRAINING MODULE 5.260.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *CHLORINE; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 40P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE PROCEDURES FOR CHLORINE RESIDUAL ANALYSIS. IT INCLUDES OBJECTIVES, AN INSTRUCTOR GUIDE, AND STUDENT HANDOUTS. THE MODULE ADDRESSES THE DETERMINATION OF COMBINED AND FREE RESIDUAL CHLORINE IN WATER SUPPLY SAMPLES USING THREE DIFFERENT METHODS: (1) AMPEROMETRIC, (2) DPD SPECTROPHOTOMETRIC, AND (3) COLOR COMPARATOR KIT. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003089

ERIC ACCESSION NUMBER: ED152587

PUBLICATION DATE: SEP 77

TITLE: DETERMINATION OF COLOR IN WATER. TRAINING MODULE 5.250.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *COLOR; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 44P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE IN TRANSPARENCY MASTERS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE DETERMINATION OF COLOR IN WATER USING THE VISUAL COMPARISON METHOD AND THE SPECTROPHOTOMETRIC METHOD. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEOTAPE IS ALSO AVAILABLE FROM THE AUTHOR. THE MODULE ADDRESSES THE IMPORTANCE OF COLOR IN WATER, PREPARATION OF STANDARDS, RELATIONSHIP OF HUE TO WAVELENGTH, USE OF A SPECTROPHOTOMETER, MEASURING TRANSMITTANCE, AND CALCULATING AND REPORTING RESULTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003090

ERIC ACCESSION NUMBER: ED152588

PUBLICATION DATE: SEP 77

TITLE: DETERMINATION OF IRON IN WATER. TRAINING MODULE 5.210.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *IRON; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 42P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE IN TRANSPARENCY MASTERS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE SPECTROPHOTOMETRIC ANALYSIS OF TOTAL IRON, FILTRABLE IRON AND FERROUS IRON IN A WATER SUPPLY. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS USE OF THE SPECTROPHOTOMETER, BEER'S LAW, CALIBRATION CURVES, PREPARATION OF REAGENTS AND STANDARDS, TEST PROCEDURES AND INTERFERENCES. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003091

ERIC ACCESSION NUMBER: ED152589

PUBLICATION DATE: SEP 77

TITLE: FLUORIDE ANALYSIS. TRAINING MODULE 5.200.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *FLUORIDES; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 39P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH FLUORIDE ANALYSIS PROCEDURES. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND A LIST OF REFERENCE MATERIAL. THIS MODULE CONSIDERS THE DETERMINATION OF FLUORIDE IN WATER SUPPLIES USING THE SPANDS AND ELECTRODE ANALYTICAL METHODS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003092

ERIC ACCESSION NUMBER: ED152590

PUBLICATION DATE: SEP 77

TITLE: FREE CARBON DIOXIDE. TRAINING MODULE 5.245.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *CARBON DIOXIDE; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 29P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE IN TRANSPARENCY MASTERS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE TITREMETRIC METHOD AND THE NOMOGRAPHIC METHOD OF DETERMINING FREE CARBON DIOXIDE CONCENTRATIONS OF A WATER SAMPLE. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS CHEMISTRY AND PRINCIPLES OF DISSOLVED CARBON DIOXIDE, THE PREPARATION OF STANDARDS AND REAGENTS, CALCULATION OF FREE CARBON DIOXIDE AND THE NOMOGRAPHIC DETERMINATION OF FREE CARBON DIOXIDE. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003093

ERIC ACCESSION NUMBER: ED152591

PUBLICATION DATE: SEP 77

TITLE: HARDNESS ANALYSIS. TRAINING MODULE 5.215.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *CALCIUM; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 26P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH HARDNESS ANALYSIS USING THE EDTA METHOD AND THE CALCULATION OF HARDNESS GIVEN METAL ION CONCENTRATIONS AND A FACTOR TABLE. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS PRINCIPLES OF HARDNESS, CALCULATION OF HARDNESS, PREPARATION OF REAGENTS FOR THE EDTA METHOD, CALCULATION OF RESULTS AND INTERFERENCES AND INHIBITORS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003094

ERIC ACCESSION NUMBER: ED152592

PUBLICATION DATE: SEP 77

TITLE: JAR TEST. TRAINING MODULE 5.230.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMICAL ANALYSIS; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; WATER POLLUTION CONTROL; *JAR TEST; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 25P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE IN TRANSPARENCY MASTERS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE JAR TEST AND ITS APPLICATION TO THE COAGULATION, FLOCULATION AND SEDIMENTATION PROCESSES, AND THE CHEMICAL PRECIPITATION PROCESS. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS THE PURPOSE AND PRINCIPLES OF THE JAR TEST, PREPARATION OF REAGENTS, COAGULATION TEST, SOFTENING TEST, VARIATION OF STIR SPEEDS AND APPLICATION OF RESULTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003095

ERIC ACCESSION NUMBER: ED152593

PUBLICATION DATE: SEP 77

TITLE: MANGANESE ANALYSIS IN WATER SAMPLES. TRAINING MODULE 5.211.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *MANGANESE; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 39P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE IN TRANSPARENCY MASTERS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE SPECTROPHOTOMETRIC ANALYSIS OF MANGANESE IN WATER USING THE PERSULFATE METHOD. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS USE OF THE SPECTROPHOTOMETER, BEER'S LAW, CALIBRATION CURVES, PREPARATION OF REAGENTS AND STANDARDS, TEST PROCEDURES AND INTERFERENCES. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003096

ERIC ACCESSION NUMBER: ED152594

PUBLICATION DATE: SEP 77

TITLE: MARBLE TEST. TRAINING MODULE 5.235.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *CALCIUM CARBONATE; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 23P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE CALCIUM CARBONATE STABILITY DETERMINATION BY ANALYTICAL MEASUREMENTS OF PH AND ALKALINITY AND BY CALCULATION FROM TEMPERATURE, CALCIUM, ALKALINITY, AND RESIDUAL MEASUREMENTS. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS THE MATHEMATICAL AND THE ANALYTICAL DETERMINATION OF CALCIUM CARBONATE STABILITY, THE SIGNIFICANCE OF THE TEST, AND APPLICATION OF TEST RESULTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003097

ERIC ACCESSION NUMBER: ED152595

PUBLICATION DATE: SEP 77

TITLE: SOLIDS ANALYSIS. TRAINING MODULE 5.100.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; WATER POLLUTION CONTROL; *SOLID WASTE MANAGEMENT; WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 41P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE LABORATORY PROCEDURES FOR DETERMINING THE COMPLETE SERIES OF SOLIDS ANALYSES ON WASTEWATER AND WASTEWATER SLUDGE SAMPLES. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS TOTAL SOLIDS, TOTAL VOLATILE SOLIDS, TOTAL SUSPENDED SOLIDS, VOLATILE SOLIDS, DISSOLVED SOLIDS, SETTLEABLE SOLIDS, PERCENT SOLIDS AND PERCENT VOLATILE SOLIDS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003099

ERIC ACCESSION NUMBER: ED152596

PUBLICATION DATE: SEP 77

TITLE: THRESHOLD ODOR. TRAINING MODULE 5.255.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *ODORS; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 29P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE IN TRANSPARENCY MASTERS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE THRESHOLD ODOR DETERMINATION. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS SAMPLE PREPARATION, PANEL SELECTION, DETERMINATION AND CALCULATION OF THE THRESHOLD ODOR NUMBER, AND INTERPRETATION OF RESULTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003099

ERIC ACCESSION NUMBER: ED152597

PUBLICATION DATE: SEP 77

TITLE: TURBIDITY. TRAINING MODULE 5.240.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY; *TURBIDITY; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 30P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE IN TRANSPARENCY MASTERS

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH CANDLE TURBIDIMETER AND THE NEPHELOMETRIC METHOD OF TURBIDITY ANALYSIS. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUT, AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS USE OF THE CANDLE TURBIDIMETER, THE NEPHELOMETRIC TURBIDIMETER, PREPARATION OF STANDARDS AND CALCULATION OF RESULTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003100

ERIC ACCESSION NUMBER: ED152598

PUBLICATION DATE: SEP 77

TITLE: RECORDS AND REPORTS. TRAINING MODULE 4.305.3.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: COMMUNICATIONS; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *POST SECONDARY EDUCATION; *RECORDKEEPING; *REPORTS; *TEACHING GUIDES; UNITS OF STUDY; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 30P.; FOR RELATED DOCUMENTS, SEE SE 024 138-165; SOME CHARTS AND GRAPHS MARGINALLY LEGIBLE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE USE OF RECORDS AND REPORTS IN OPERATION AND MANAGEMENT OF WATER AND WASTEWATER TREATMENT SYSTEMS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, AND STUDENT HANDOUTS. THIS MODULE CONSIDERS DEVELOPMENT AND USE OF OPERATIONAL, INVENTORY, MAINTENANCE, FINANCIAL, AND PERSONNEL RECORDS AND THE WRITING OF EFFECTIVE REPORTS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003101

ERIC ACCESSION NUMBER: ED152599

PUBLICATION DATE: SEP 77

TITLE: MONITORING REPORTS. TRAINING MODULE 4.300.3.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *REPORTS; SECONDARY EDUCATION; *STANDARDS; *TEACHING GUIDES; UNITS OF STUDY; *MONITORING; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 91P.; FOR RELATED DOCUMENTS, SEE SE 024 138-164; SOME CHARTS AND GRAPHS MARGINALLY LEGIBLE

ISSUE: RIEAUG78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH STATE AND FEDERAL WASTEWATER TREATMENT PLANT OPERATION AND DISCHARGE PERMIT REPORTING REQUIREMENTS AND KNOWLEDGEABLE IN THE PROPER COMPLETION OF THE IOWA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) MONTHLY OPERATION REPORT FORMS AND THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY (EPA) QUARTERLY REPORT FORMS. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS, AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS INTERPRETATION OF DEQ AND EPA PERMITS TO IDENTIFY REPORTING REQUIREMENTS AND PROPER COMPLETION OF THE VARIOUS REPORT FORMS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003102

PUBLICATION DATE: JAN 77

TITLE: THE REPORT TO CONGRESS: WASTE DISPOSAL PRACTICES AND THEIR EFFECTS ON GROUND WATER. (REPORT).

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; GEOLOGY; LAND USE; *LEGISLATION; NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; *RESEARCH; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER RESOURCES; *GROUNDWATER; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 531P. ORDER NO. PB 265 081; 52 PAGE SUMMARY ALSO AVAILABLE (ORDER NO. PB 265 364; $5.25)

ABSTRACT: THIS REPORT IS AN EVALUATION OF THE IMPACT OF WASTE DISPOSAL PRACTICES UPON PRESENT AND FUTURE UNDERGROUND SOURCES OF DRINKING WATER PURSUANT TO PUBLIC LAW 93-523, THE SAFE DRINKING WATER ACT. SUBJECT CATEGORIES DISCUSSED INCLUDE GROUNDWATER CONTAMINATION, LAND DISPOSAL PRACTICES, MUNICIPAL COLLECTION, TREATMENT AND DISPOSAL OF WASTEWATER; AND DISPOSAL FROM PETROLEUM EXPLORATION, FROM MINE EXPLORATION, AND FROM ANIMAL FEEDLOTS. THE REPORT ALSO ASSESSES THE ABILITY OF FEDERAL, STATE AND LOCAL AUTHORITIES TO CONTROL SUCH PRACTICES. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($15.50)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER SUPPLY.

IRIS ACCESSION NUMBER: EW003103

ERIC ACCESSION NUMBER: ED152492

PUBLICATION DATE: JUN 74

TITLE: CLEAN WATER: REPORT TO CONGRESS - 1974.

INSTITUTION CODE: BBB06039

DESCRIPTOR: *ANNUAL REPORTS; ENVIRONMENTAL CRITERIA; ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; FEDERAL COURT LITIGATION; *FEDERAL LEGISLATION; *GOVERNMENT PUBLICATIONS; *GOVERNMENT ROLE; PUBLIC HEALTH; *WATER POLLUTION CONTROL; *ENVIRONMENTAL PROTECTION AGENCY; FEDERAL WATER POLLUTION CONTROL ACT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 89P.; CONTAINS SMALL PRINT IN APPENDICES; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEAUG78

ABSTRACT: THIS PUBLICATION, AN ANNUAL REPORT TO CONGRESS, COVERS MEASURES TAKEN TO IMPLEMENT THE OBJECTIVES OF THE FEDERAL WATER POLLUTION CONTROL ACT. THE REPORT WAS DEVELOPED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND COVERS CALENDAR YEAR 1973. A LETTER INTRODUCING AND HIGHLIGHTING THE REPORT FROM THE EPA DIRECTOR TO THE CONGRESS IS GIVEN AT THE BEGINNING OF THE PUBLICATION. THE INTRODUCTION DESCRIBES THE VARIOUS FEDERAL, STATE AND LOCAL GOVERNMENT ROLES AS WELL AS THE ROLES OF INDUSTRY AND THE PUBLIC IN WATER POLLUTION CONTROL EFFORTS IN 1973. OTHER SECTIONS OF THE PUBLICATION DESCRIBE EFFORTS IN WATER QUALITY, MONITORING AND PLANNING, GRANTS TO STATE AND LOCAL GOVERNMENTS, REGULATION, WATER QUALITY STANDARDS AND EFFLUENT LIMITATIONS, RESEARCH AND DEVELOPMENT, AND EFFICIENCY OF TREATMENT WORKS. FIVE APPENDICES ARE INCLUDED WHICH DESCRIBE ENFORCEMENT ACTIONS PENDING OR COMPLETED DURING 1973 THAT PERTAIN TO WATER POLLUTION CONTROL LEGISLATION. (MR)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003104

ERIC ACCESSION NUMBER: ED152494

PUBLICATION DATE: MAR 77

TITLE: OIL SPILLS AND SPILLS OF HAZARDOUS SUBSTANCES.

INSTITUTION CODE: BBB13327

DESCRIPTOR: ACCIDENT PREVENTION; CHEMICAL INDUSTRY; *ENVIRONMENTAL EDUCATION; GOVERNMENT PUBLICATIONS; *PESTICIDES; *PETROLEUM INDUSTRY; *POLLUTION; PUBLIC HEALTH; SCIENCE EDUCATION; SECONDARY SCHOOL STUDENTS; *WATER POLLUTION CONTROL; *ENVIRONMENTAL PROTECTION AGENCY; *OIL POLLUTION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 44P.; CONTAINS OCCASIONAL SMALL PRINT AND BROKEN TYPE; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEAUG78

ABSTRACT: THE STATED PURPOSE OF THIS PUBLICATION IS TO DESCRIBE SOME OF THE MORE SIGNIFICANT SPILL INCIDENTS AND THE MECHANISMS, BOTH MANAGERIAL AND TECHNOLOGICAL, TO DEAL WITH THEM. THIS PUBLICATION IS TARGETED FOR SCHOOL, GENERAL PUBLIC, AND OTHER SUCH AUDIENCES. SECTIONS INCLUDE EFFECTS OF SPILLS, PREVENTION OF SPILLS, RESPONDING TO SPILLS, SPILL SURVEILLANCE, SPILL INCIDENTS, SPILLS OF HAZARDOUS SUBSTANCES, INTERNATIONAL COOPERATION, AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REGIONAL OFFICES. ALONG WITH MANY BLACK AND WHITE PHOTOGRAPHS OF OIL SPILLS AND CLEAN-UP EFFORTS, THIS PUBLICATION CONTAINS DISCUSSION OF SEVERAL RECENT SPILLS. AMONG THE SPILLS DESCRIBED ARE THE TORREY CANYON, THE SANTA BARBARA OFF-SHORE WELL BLOW-OUT, SAN JUAN RIVER SPILL, TAPPAN ZEE BARGE SPILL, THE ARGO MERCHANT DISASTER AND MANY OTHERS. ALSO DESCRIBED ARE CLEAN-UP MEASURES EMPLOYED AND PLANS FOR DEALING WITH FUTURE SPILLS. HAZARDOUS SUBSTANCE ACCIDENTS DESCRIBED ARE TANK CAR, TERMINAL, BARGE, AND SHIP SPILLS OF PCB'S, TOXAPHENE, CHLORINE, STRIP MINE PONDS, AND CHLORINATED HYDROCARBONS. (MR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (NO PRICE QUOTED)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003105

ERIC ACCESSION NUMBER: ED152504

PUBLICATION DATE: 77

TITLE: ESTIMATED USE OF WATER IN THE UNITED STATES IN 1975. GEOLOGICAL SURVEY CIRCULAR 765.

PERSONAL AUTHOR: MURRAY, C. RICHARD; REEVES, E. BODETTE

INSTITUTION CODE: FGK21460

DESCRIPTOR: ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL RESEARCH; *ENVIRONMENTAL TECHNICIANS; *FUTURES (OF SOCIETY); GOVERNMENT PUBLICATIONS; NATURAL RESOURCES; RESEARCH; TREND ANALYSIS; *USE STUDIES; *WATER RESOURCES; *GEOLOGICAL SURVEY; *WATER USE

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 66P.; CONTAINS OCCASIONAL SMALL PRINT

ISSUE: RIEAUG78

ABSTRACT: THE UNITED STATES GEOLOGICAL SURVEY HAS COMPILED DATA ON WATER USE IN THIS COUNTRY EVERY FIFTH YEAR SINCE 195.. THIS DOCUMENT IS THE MOST RECENT OF THIS SERIES AND PRESENTS DATA ON WATER WITHDRAWN FOR USE IN THE UNITED STATES IN 1975. IN THE INTRODUCTION, RECENT AND PRESENT WATER USE STUDIES ARE DISCUSSED ALONG WITH A DESCRIPTION OF THE TERMINOLOGY INVOLVED. WITHDRAWAL USES, DISCUSSED IN THE SECOND SECTION, INVOLVE WITHDRAWAL FOR PUBLIC SUPPLIES, RURAL USES, IRRIGATION, SELF-SUPPLIED INDUSTRIAL WATER, THERMOELECTRIC POWER, AND HYDROELECTRIC POWER. ALSO IN THIS SECTION, A SUMMARY OF OFF-CHANNEL WATER WITHDRAWALS AND CONSUMPTION IS GIVEN. OTHER SECTIONS OF THIS PUBLICATION DISCUSS NON-WITHDRAWAL USES; TRENDS IN WATER USE OVER 25 YEARS; SUPPLY COMPARED WITH CUMULATIVE, OFF-CHANNEL WATER WITHDRAWALS; AND A BIBLIOGRAPHY. DATA FOR THIS STUDY WERE COMPILED FROM 407 AREAS USING FEDERAL, STATE, AND LOCAL INFORMATION SOURCES. MANY TABLES AND FIGURES ARE USED TO HELP SUMMARIZE THE DATA AND SUPPORT THE TEXT. THE LAST HALF OF THIS DOCUMENT CONSISTS OF 14 TABLES COMPILING THE DATA FOR WATER USE NOT COVERED IN DETAIL IN THE TEXT. (MR)

AVAILABILITY: BRANCH OF DISTRIBUTION, U.S. GEOLOGICAL SURVEY, 1200 SOUTH EADS STREET, ARLINGTON, VIRGINIA 22202 (FREE)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003106

ERIC ACCESSION NUMBER: ED152505

PUBLICATION DATE: 76

TITLE: A FIELD STUDY TRAINING PROGRAM ON WASTEWATER LAGOON SYSTEMS.

INSTITUTION CODE: BBB15510

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: *CORRESPONDENCE COURSES; ENVIRONMENTAL CRITERIA; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; HEALTH PERSONNEL; INSERVICE EDUCATION; *JOB TRAINING; MANAGEMENT EDUCATION; *MANUALS; SANITATION IMPROVEMENT; *WATER POLLUTION CONTROL; WATER RESOURCES; ENVIRONMENTAL PROTECTION AGENCY; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$14.05 PLUS POSTAGE.

DESCRIPTIVE NOTE: 267P.; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS PUBLICATION IS A TEXT AND REFERENCE MANUAL FOR OPERATING PERSONNEL OF BOTH LARGE AND SMALL WASTEWATER LAGOON SYSTEMS WITH SUPPORT FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA). AS A TEXT, THIS INSERVICE TRAINING MANUAL IS INTENDED TO BE USED IN A CORRESPONDENCE COURSE WHEREIN THE TRAINEE OR OPERATOR WOULD READ AND STUDY EACH CHAPTER BEFORE COMPLETING THE EXAMINATION FOR THAT CHAPTER. THE FIRST TWO SECTIONS EXPLAIN HOW TO STUDY AND THE EXAMINATION INSTRUCTIONS. OTHER SECTIONS INCLUDE VARIOUS AREAS OF WASTEWATER LAGOON SYSTEM MANAGEMENT SUCH AS WASTEWATER COLLECTION SYSTEMS, SEWAGE LIFT STATIONS AND PUMPING EQUIPMENT, COMPOSITION AND CHARACTERISTICS OF WASTEWATER, SCREENING DEVICES, FLOW MEASURING, STABILIZATION PONDS, PUBLIC RELATIONS, MAINTENANCE, AND NPDES REQUIREMENTS AND LABORATORY TESTING. THE TESTS AT THE END OF EACH CHAPTER CONSIST OF MULTIPLE CHOICE AND TRUE-FALSE QUESTIONS. THE TEXT CONTAINS SOME DIAGRAMS AND BLACK AND WHITE PICTURES. (MR)

GRANT NUMBER: EPA-T-900507-01-0

INSTITUTION NAME: WATER AND WASTEWATER TECHNICAL SCHOOL, NEOSHO, MO.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003107

ERIC ACCESSION NUMBER: ED152511

PUBLICATION DATE: 77

TITLE: AQUATIC PLANTS: MANAGEMENT AND CONTROL. SPECIAL CIRCULAR 222.

PERSONAL AUTHOR: WINGARD, R. G.; AND OTHERS

INSTITUTION CODE: BBB06081

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *EXTENSION EDUCATION; *HERBICIDES; LAND USE; NATURAL RESOURCES; PLANT GROWTH; *PLANT IDENTIFICATION; PLANT SCIENCE; *WATER RESOURCES; WEEDS; *WILDLIFE MANAGEMENT; *AQUATIC PLANT MANAGEMENT; PENNSYLVANIA COOPERATIVE EXTENSION SERVICE

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 23P.; NOT AVAILABLE IN HARD COPY DUE TO COLORED PRINT THROUGHOUT ENTIRE DOCUMENT

ISSUE: RIEAUG78

ABSTRACT: THIS PUBLICATION, PRODUCED BY THE PENNSYLVANIA COOPERATIVE EXTENSION SERVICE, IS A NON-TECHNICAL GUIDE TO CHEMICAL CONTROL OF AQUATIC VEGETATION. THE PURPOSE OF THIS CIRCULAR IS TO AID THE LAND OWNER OR MANAGER IN MANAGING PONDS, STREAMS, AND OTHER WATER BODIES FOR DESIRED USES BY MANAGING THE VEGETATION IN, ON, AND AROUND THE WATER. AMONG THE TOPICS DISCUSSED ARE THE GROWTH AND VARIOUS TYPES OF ALGAE; GROWTH AND TYPES OF FLOWERING AQUATIC PLANTS; THE EFFECTS OF THE ENVIRONMENT ON GROWTH; THE CONTRIBUTIONS OF AQUATIC PLANTS TO THE ENVIRONMENT; POLLUTION ASSOCIATED WITH AQUATIC PLANT GROWTH; AND MANAGEMENT AND CONTROL OF AQUATIC PLANTS, INCLUDING MECHANICAL, ENVIRONMENTAL, AND CHEMICAL CONTROLS. THE CHEMICAL CONTROLS SECTION BRIEFLY DISCUSSES TREATMENTS FOR VARIOUS PLANT TYPES AND THE POSSIBLE EFFECTS OF THOSE TREATMENTS AS WELL AS DOSAGE CALCULATIONS, EQUIPMENT, AND APPLICATION TECHNIQUES. A SHORT SUMMARY AND A CARD SHOWING VARIOUS AQUATIC PLANTS WITH RECOMMENDED HERBICIDE NAMES ARE ALSO INCLUDED. THE LAST HALF OF THE PUBLICATION IS A CATALOG OF COMMON AQUATIC PLANTS. (MR)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW003108

ERIC ACCESSION NUMBER: ED152558

PUBLICATION DATE: 75

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE SCREENING & GRINDING PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 1.

PERSONAL AUTHOR: DEAL, GERALD A.; MONTGOMERY, JAMES A.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; INDUSTRIAL TRAINING; *JOB TRAINING; SAFETY; TECHNICAL OCCUPATIONS; TECHNICAL REPORTS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 64P.; FOR RELATED DOCUMENTS, SEE SE 024 092-097; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS GUIDE DESCRIBES STANDARD OPERATING JOB PROCEDURES FOR THE SCREENING AND GRINDING PROCESS OF WASTEWATER TREATMENT FACILITIES. THE OBJECTIVE OF THIS PROCESS IS THE REMOVAL OF COARSE MATERIALS FROM THE RAW WASTE STREAM FOR THE PROTECTION OF SUBSEQUENT EQUIPMENT AND PROCESSES. THE GUIDE GIVES STEP-BY-STEP INSTRUCTIONS FOR SAFETY INSPECTION, START-UP PROCEDURES, CONTINUOUS OPERATING PROCEDURES, AND SHUT-DOWN PROCEDURES. (AUTHOR/BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003109

ERIC ACCESSION NUMBER: ED152559

PUBLICATION DATE: 75

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE GRIT REMOVAL PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 2.

PERSONAL AUTHOR: DEAL, GERALD A.; MONTGOMERY, JAMES A.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; *INDUSTRIAL TRAINING; JOB TRAINING; SAFETY; TECHNICAL OCCUPATIONS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 38P.; FOR RELATED DOCUMENTS, SEE SE 024 091-097; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS GUIDE DESCRIBES STANDARD OPERATING JOB PROCEDURES FOR THE GRIT REMOVAL PROCESS OF WASTEWATER TREATMENT PLANTS. STEP-BY-STEP INSTRUCTIONS ARE GIVEN FOR PRE-START UP INSPECTION, START-UP, CONTINUOUS OPERATION, AND SHUT-DOWN PROCEDURES. A DESCRIPTION OF THE EQUIPMENT USED IN THE PROCESS IS GIVEN. SOME THEORETICAL MATERIAL IS PRESENTED. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003110

ERIC ACCESSION NUMBER: ED152560

PUBLICATION DATE: 75

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE PUMP STATION PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 3.

PERSONAL AUTHOR: PERLEY, GORDON F.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; INDUSTRIAL TRAINING; *JOB TRAINING; SAFETY; TECHNICAL REPORTS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 55P.; FOR RELATED DOCUMENTS, SEE SE 024 091-097; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS IS A GUIDE FOR STANDARD OPERATING JOB PROCEDURES FOR THE PUMP STATION PROCESS OF WASTEWATER TREATMENT PLANTS. STEP-BY-STEP INSTRUCTIONS ARE GIVEN FOR PRE-START UP INSPECTION, START-UP PROCEDURES, CONTINUOUS ROUTINE OPERATION PROCEDURES, AND SHUT-DOWN PROCEDURES. A GENERAL DESCRIPTION OF THE EQUIPMENT USED IN THE PROCESS IS GIVEN. TWO MATHEMATICS PROBLEMS RELATED TO PUMPS ARE PRESENTED. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003111

ERIC ACCESSION NUMBER: ED152561

PUBLICATION DATE: 75

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE PRIMARY SEDIMENTATION PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 4.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; INDUSTRIAL TRAINING; *JOB TRAINING; SAFETY; TECHNICAL REPORTS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 42P.; FOR RELATED DOCUMENTS, SEE SE 024 091-097; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS GUIDE DESCRIBES STANDARD OPERATING JOB PROCEDURES FOR THE PRIMARY SEDIMENTATION PROCESS OF WASTEWATER TREATMENT PLANTS. THE PRIMARY SEDIMENTATION PROCESS INVOLVES REMOVING SETTLEABLE AND SUSPENDED SOLIDS, IN PART, FROM WASTEWATER BY GRAVITATIONAL FORCES, AND SCUM AND OTHER FLOATABLE SOLIDS FROM WASTEWATER BY MECHANICAL MEANS. STEP-BY-STEP INSTRUCTIONS ARE GIVEN FOR PRE-START UP PROCEDURES, START-UP PROCEDURES, CONTINUOUS OPERATING PROCEDURES, AND SHUT-DOWN PROCEDURES, ALONG WITH A DESCRIPTION OF THE EQUIPMENT USED IN THE PROCESS AND SOME THEORETICAL INFORMATION. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003112

ERIC ACCESSION NUMBER: ED152562

PUBLICATION DATE: 75

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE ACTIVATED SLUDGE - AERATION & SEDIMENTATION PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 5.

PERSONAL AUTHOR: MASON, GEORGE J.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; INDUSTRIAL TRAINING; *JOB TRAINING; *MICROBIOLOGY; SAFETY; TECHNICAL REPORTS; *UTILITIES; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 85P.; FOR RELATED DOCUMENTS, SEE SE 024 091-097; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR WASTEWATER TREATMENT FACILITIES IS DEVOTED TO THE ACTIVATED SLUDGE AERATION AND SEDIMENTATION PROCESS. THIS PROCESS IS FOR CONVERSION OF NONSETTLEABLE AND NONFLOATABLE MATERIALS IN WASTEWATER TO SETTLEABLE, FLOCULATED BIOLOGICAL GROUPS AND SEPARATION OF THE SETTLEABLE SOLIDS FROM THE WATER. THE GUIDE GIVES STEP-BY-STEP PRE-START UP, START-UP, OPERATING, AND SHUT-DOWN INSTRUCTIONS ALONG WITH A GENERAL DESCRIPTION OF THE EQUIPMENT USED IN THE PROCESS AND SOME THEORETICAL MATERIAL. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003113

ERIC ACCESSION NUMBER: ED152563

PUBLICATION DATE: FEB 75

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE TERTIARY CHEMICAL TREATMENT - LIME PRECIPITATION PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 6.

PERSONAL AUTHOR: PETRASEK, AL, JR.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; HEALTH OCCUPATIONS; INDUSTRIAL TRAINING; *JOB TRAINING; SAFETY; TECHNICAL REPORTS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 185P.; FOR RELATED DOCUMENTS, SEE SE 024 091-097; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAUG78

ABSTRACT: THIS GUIDE DESCRIBES THE STANDARD OPERATING JOB PROCEDURES FOR THE TERTIARY CHEMICAL TREATMENT - LIME PRECIPITATION PROCESS OF WASTEWATER TREATMENT PLANTS. STEP-BY-STEP INSTRUCTIONS ARE GIVEN FOR PRE-START UP, START-UP, CONTINUOUS OPERATION, AND SHUT-DOWN PROCEDURES. IN ADDITION, SOME THEORETICAL MATERIAL IS PRESENTED ALONG WITH SOME RELEVANT CHEMICAL AND MATHEMATICAL COMPUTATIONS. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003114

ERIC ACCESSION NUMBER: ED152564

PUBLICATION DATE: JUN 75

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE TERTIARY MULTIMEDIA FILTRATION PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 7.

PERSONAL AUTHOR: PETRASEK, AL, JR.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; HEALTH OCCUPATIONS; INDUSTRIAL TRAINING; *JOB TRAINING; SAFETY; TECHNICAL REPORTS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 127P.; FOR RELATED DOCUMENTS, SEE SE 024 091-096

ISSUE: RIEAUG78

ABSTRACT: THIS GUIDE DESCRIBES THE STANDARD OPERATING JOB PROCEDURES FOR THE TERTIARY MULTIMEDIA FILTRATION PROCESS OF WASTEWATER TREATMENT PLANTS. THE MAJOR OBJECTIVE OF THE FILTRATION PROCESS IS THE REMOVAL OF SUSPENDED SOLIDS FROM THE RECLAIMED WASTEWATER. THE GUIDE GIVES STEP-BY-STEP INSTRUCTIONS FOR PRE-START UP, START-UP, CONTINUOUS OPERATION, AND SHUT-DOWN PROCEDURES. IN ADDITION, SOME THEORETICAL INFORMATION AND MATHEMATICAL CALCULATIONS ARE GIVEN. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003115

ERIC ACCESSION NUMBER: ED152571

PUBLICATION DATE: DEC 73

TITLE: MANUAL OF CONSIDERATIONS AND TECHNIQUES FOR START-UP OF MUNICIPAL WASTEWATER TREATMENT FACILITIES.

PERSONAL AUTHOR: RADEK, R. D.; AND OTHERS

INSTITUTION CODE: BBB15511

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: ENVIRONMENT; EQUIPMENT STANDARDS; FEDERAL LEGISLATION; HEALTH FACILITIES; *MANUALS; *OPERATING ENGINEERING; POLLUTION; SCIENCE EDUCATION; STANDARDS; *UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 99P.; FOR RELATED DOCUMENT, SEE SE 024 118

ISSUE: RIEAUG78

ABSTRACT: THIS MANUAL PROVIDES GUIDANCE FOR PUTTING INTO INITIAL OPERATION A NEW MUNICIPAL WASTEWATER TREATMENT PLANT, A NEW ADDITION TO AN EXISTING TREATMENT PLANT, OR A CHANGE IN THE MODE OF A TREATMENT PLANT'S OPERATION. INFORMATION IS PROVIDED ON PREPARING FOR ACTUAL TREATMENT PLANT START-UP. PREPARATION FOR START-UP INCLUDES: STAFFING THE PLANT, DEVELOPING STANDARD OPERATING PROCEDURES, CONDUCTING DRY- AND WET-RUNNING TESTING OF EQUIPMENT, PROVIDING ON-SITE OPERATOR TRAINING, CONDUCTING SAFETY TRAINING, AND ESTABLISHING PROCEDURES WHEN CONSTRUCTION IS CONTINUING DURING START-UP. THIS MANUAL DESCRIBES START-UP PROCEDURES FOR SOME OF THE MORE COMMON PRETREATMENT AND PRIMARY TREATMENT UNITS; FOR THE SPECIFIC SECONDARY TREATMENT PROCESSES OF ACTIVATED SLUDGE, TRICKLING FILTERS, STABILIZATION PONDS, AND AERATED LAGOONS; AND FOR SLUDGE HANDLING UNITS AND THE ANAEROBIC DIGESTION PROCESS. THE START-UP PROCEDURES FOR ADVANCED WASTEWATER TREATMENT UNITS AND PROCESSES ARE NOT WITHIN THE SCOPE OF THIS MANUAL. REFERENCES ARE PROVIDED FOR ADDITIONAL INFORMATION ON ADMINISTRATIVE AND PROCESS CONSIDERATIONS; A GLOSSARY OF PERTINENT WASTEWATER TERMS IS ALSO INCLUDED. (AUTHOR/BB)

CONTRACT NUMBER: EPA-68-01-0341

INSTITUTION NAME: WILEY & WILSON, INC., LYNCHBURG, VA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003116

ERIC ACCESSION NUMBER: ED153783

PUBLICATION DATE: MAR 77

TITLE: PROCESS CONTROL MANUAL FOR AEROBIC BIOLOGICAL WASTEWATER TREATMENT FACILITIES.

INSTITUTION CODE: BBB13327

DESCRIPTOR: ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; GOVERNMENT PUBLICATIONS; *MANUALS; MUNICIPALITIES; *SANITARY FACILITIES; *SANITATION IMPROVEMENT; WASTES; *WATER POLLUTION CONTROL; WATER RESOURCES; ENVIRONMENTAL PROTECTION AGENCY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$19.41 PLUS POSTAGE.

DESCRIPTIVE NOTE: 373P.; CONTAINS OCCASIONAL MARGINAL LEGIBILITY IN TABLES AND FIGURES; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIESEP78

ABSTRACT: THIS ENVIRONMENTAL PROTECTION AGENCY (EPA) PUBLICATION IS AN OPERATIONS MANUAL FOR ACTIVATED SLUDGE AND TRICKLING FILTER WASTEWATER TREATMENT FACILITIES. THE STATED PURPOSE OF THE MANUAL IS TO PROVIDE AN ON-THE-JOB REFERENCE FOR OPERATORS OF THESE TWO TYPES OF TREATMENT PLANTS. THE OVERALL OBJECTIVE OF THE MANUAL IS TO AID THE OPERATOR IN DETERMINING WHAT PROCESS CONTROL AND OPERATIONSL MEASURES MAY BE MOST EFFECTIVE IN OPTIMIZING THE PERFORMANCE OF HIS/HER PARTICULAR TREATMENT PLANT. THE MANUAL IS PRESENTED IN THREE MAJOR DIVISIONS: (1) ACTIVATED SLUDGE PROCESS, (2) TRICKLING FILTER PROCESS, AND (3) APPENDICES. THE FIRST TWO DIVISIONS ARE EACH DIVIDED INTO FOUR SECTIONS: (1) TROUBLESHOOTING, (2) PROCESS CONTROL, (3) FUNDAMENTALS, AND (4) LABORATORY CONTROL. EACH SECTION CONCLUDES WITH A LIST OF SELECTED REFERENCES. THIS PUBLICATION ASSUMES FAMILIARITY WITH THESE TWO AEROBIC TREATMENT PROCESSES, BUT IT INCLUDES FUNDAMENTALS SECTIONS IN THE FIRST TWO DIVISIONS FOR THOSE WHO MAY BE UNFAMILIAR WITH THESE PROCESSES. THE FOUR APPENDICES CONTAIN MATERIAL ON OPERATIONAL RECORDS, PLANT VISITS, LABORATORY EQUIPMENT, AND A GLOSSARY. (MR)

REPORT NUMBER: EPA-430/9-77-006

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003117

ERIC ACCESSION NUMBER: ED153806

PUBLICATION DATE: JUL 75

TITLE: A GUIDE TO THE SELECTION OF COST-EFFECTIVE WASTEWATER TREATMENT SYSTEMS. TECHNICAL REPORT.

PERSONAL AUTHOR: VAN NOTE, ROBERT H.; AND OTHERS

INSTITUTION CODE: BBB00703

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: CALCULATION; *COST EFFECTIVENESS; ENVIRONMENT; *GUIDELINES; POLLUTION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$12.71 PLUS POSTAGE.

DESCRIPTIVE NOTE: 228P.; DIAGRAMS IV-1 AND IV-2 AND TABLE V-3 REMOVED DUE TO OVERSIZED PAGE

ISSUE: RIESEP78

ABSTRACT: THE DATA WITHIN THIS PUBLICATION PROVIDE GUIDELINES FOR PLANNERS, ENGINEERS AND DECISION-MAKERS AT ALL GOVERNMENTAL LEVELS TO EVALUATE COST-EFFECTIVENESS OF ALTERNATIVE WASTEWATER TREATMENT PROPOSALS. THE PROCESSES DESCRIBED INCLUDE CONVENTIONAL AND ADVANCED TREATMENT UNITS AS WELL AS MOST SLUDGE HANDLING AND PROCESSING UNITS. FLOW SHEETS, COST CURVES AND DIAGRAMS ARE PRESENTED WHICH SHOW LOGICAL COMBINATIONS OF THE UNIT PROCESSES TO FORM COMPLETE WASTEWATER TREATMENT SYSTEMS CAPABLE OF ACHIEVING VARIOUS LEVELS OF EFFLUENT QUALITY. (CS)

REPORT NUMBER: EPA-430/9-75-002

CONTRACT NUMBER: EPA-68-01-1276

INSTITUTION NAME: BECHTEL CORP., SAN FRANCISCO, CALIF.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003118

ERIC ACCESSION NUMBER: ED153865

PUBLICATION DATE: SEP 77

TITLE: TOTAL COLIFORM DETERMINATIONS. TRAINING MODULE 5.205.3.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: BIOLOGY; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MICROBIOLOGY; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *UNITS OF STUDY; WATER RESOURCES; *COLIFORM DETERMINATION; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 111P.; FOR RELATED DOCUMENTS, SEE SE 024 250-254

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH MULTIPLE TUBE AND MEMBRANE FILTER TECHNIQUES FOR DETERMINING TOTAL COLIFORM CONCENTRATION OF A WATER SUPPLY. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS PROPER LABORATORY PRACTICES, PROPER SAMPLING, EQUIPMENT AND MEDIA PREPARATION, TEST PROCEDURES AND DATA INTERPRETATION. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003119

ERIC ACCESSION NUMBER: ED153866

PUBLICATION DATE: SEP 77

TITLE: BASIC LABORATORY SKILLS. TRAINING MODULE 5.305.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *BIOLOGY; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; SECONDARY EDUCATION; UNITS OF STUDY; WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 195P.; FOR RELATED DOCUMENTS, SEE SE 024 249-254

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE BASIC CHEMICAL AND MICROBIOLOGICAL LABORATORY EQUIPMENT AND PROCEDURES USED IN WATER AND WASTEWATER TREATMENT PLANT LABORATORIES. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS LAB SAFETY, BENCH SHEETS, LABELING, SAMPLING, SOLUTIONS, DILUTION TECHNIQUES, INCUBATORS, BALANCES, GLASSWARE, STANDARDIZATION, STANDARD CURVES, EQUIPMENT PACKAGING, AUTOCLAVES, MICROSCOPES AND ASEPTIC TECHNIQUES. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003120

ERIC ACCESSION NUMBER: ED153867

PUBLICATION DATE: SEP 77

TITLE: PH. TRAINING MODULE 5.305.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POST SECONDARY EDUCATION; SCIENCE EDUCATION; SECONDARY EDUCATION; *UNITS OF STUDY; PH CALCULATION; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 38P.; FOR RELATED DOCUMENTS, SEE SE 024 249-254

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH PH, MEASUREMENT OF PH WITH A PH METER AND MAINTENANCE OF PH METER ELECTRODES. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS THE DEFINITION OF PH, TYPES OF ELECTRODES AND THEIR COMPONENTS, ELECTRODE MAINTENANCE, AND PROCEDURES FOR USING A PH METER TO DETERMINE THE PH OF A WATER OR WASTEWATER SAMPLE. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003121

ERIC ACCESSION NUMBER: ED153868

PUBLICATION DATE: SEP 77

TITLE: ALKALINITY ANALYSIS. TRAINING MODULE 5.220.2.77.

PERSONAL AUTHOR: BONTE, JOHN L.; DAVIDSON, ARNOLD C.

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; UNITS OF STUDY; *ALKALINITY; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 33P.; FOR RELATED DOCUMENTS, SEE SE 024 249-254; CONTAINS MARGINAL LEGIBILITY IN TRANSPARENCY MASTERS

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH THE ACID-BASE TITRIMETRIC PROCEDURE FOR DETERMINING THE HYDROXIDE, CARBONATE AND BICARBONATE ALKALINITY OF A WATER SAMPLE. INCLUDED ARE OBJECTIVES, AN INSTRUCTOR GUIDE, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. A VIDEO TAPE IS ALSO AVAILABLE FROM THE AUTHOR. THIS MODULE CONSIDERS USE OF THE PH METER, PREPARATION AND STANDARDIZATION OF REAGENTS, TITRATION AND CALCULATION OF RESULTS. (AUTHOR/RH)

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003122

ERIC ACCESSION NUMBER: ED153869

PUBLICATION DATE: SEP 77

TITLE: ANAEROBIC DIGESTION ANALYSIS. TRAINING MODULE 5.120.2.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; UNITS OF STUDY; WATER POLLUTION CONTROL; *CARBON DIXOIDE; SLUDGE DIGESTION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 44P.; FOR RELATED DOCUMENTS, SEE SE 024 249-254

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH ALKALINITY, VOLATILE ACIDS AND CARBON DIOXIDE DETERMINATIONS FOR AN ANAEROBIC SLUDGE DIGESTER. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS TOTAL AND BICARBONATE ALKALINITY TITRATION, PERCENT CARBON DIOXIDE AND DIGESTER GAS BY THE CARBON DIOXIDE ABSORBTION METHODS AND VOLATILE ACIDS CONCENTRATION IN DIGESTER SLUDGE BY THE RAPID DISTILLATION, THE SILICIC ACID, AND THE "HACH" ESTERIFICATION METHODS. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003123

ERIC ACCESSION NUMBER: ED153870

PUBLICATION DATE: SEP 77

TITLE: FECAL COLIFORM DETERMINATIONS. TRAINING MODULE 5.115.3.77.

INSTITUTION CODE: BBB08399

SPONSORING AGENCY CODE: BBB15379; FGK21436

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MICROBIOLOGY; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *UNITS OF STUDY; WATER POLLUTION CONTROL; *COLIFORM DETERMINATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 110P.; FOR RELATED DOCUMENTS, SEE SE 024 249-253

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH MULTIPLE TUBE AND MEMBRANE FILTER TECHNIQUES FOR DETERMINING FECAL COLIFORM CONCENTRATIONS IN A WASTEWATER SAMPLE. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THIS MODULE CONSIDERS PROPER LABORATORY PRACTICES, PROPER SAMPLING, EQUIPMENT AND MEDIA PREPARATION, TEST PROCEDURES AND DATA INTERPRETATION. (AUTHOR/RH)

INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.

SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

IRIS ACCESSION NUMBER: EW003124

ERIC ACCESSION NUMBER: ED153785

PUBLICATION DATE: APR 77

TITLE: INDUSTRIAL SPECIAL WASTES GENERATED IN IOWA AND MANPOWER CHARACTERISTICS OF EMPLOYEE HANDLERS, VOLUME I.

PERSONAL AUTHOR: PIERCE, DAVID R.

INSTITUTION CODE: BBB15564

SPONSORING AGENCY CODE: JXQ38625

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; *INDUSTRY; JOB SKILLS; LEGISLATION; MANPOWER NEEDS; PESTICIDES; *POLLUTION; *WASTE DISPOSAL; IOWA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 182P.; FOR VOLUME II, SEE SE 023 756; MARGINAL LEGIBILITY IN APPENDICES ; BEST COPY AVAILABLE

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT, VOL. I IN A SET, PRESENTS INFORMATION OBTAINED FROM A SURVEY OF INDUSTRY IN IOWA TO DETERMINE THE USE AND QUANTITIES, DISTRIBUTION, AND TREATMENT AND DISPOSAL PRACTICES OF HAZARDOUS WASTE GENERATORS. ADDITIONALLY, IT TABULATED THE NUMBER AND MANPOWER CHARACTERISTICS OF EMPLOYEES WHO ARE IN DAILY CONTACT WITH SUCH HAZARDOUS MATERIALS. THE INFORMATION WAS UTILIZED TO IDENTIFY THE TRAINING NEEDS IN INDUSTRY AND RESULTED IN DEVELOPMENT OF TWO TRAINING MODULES. (CS)

CONTRACT NUMBER: 76-4300-OL

INSTITUTION NAME: NORTH IOWA AREA COMMUNITY COLL., MASON CITY.

SPONSORING AGENCY NAME: IOWA STATE DEPT. OF PUBLIC INSTRUCTION, DES MOINES.

IRIS ACCESSION NUMBER: EW003125

ERIC ACCESSION NUMBER: ED153786

PUBLICATION DATE: APR 77

TITLE: INDUSTRIAL SPECIAL WASTES GENERATED IN IOWA AND MANPOWER CHARACTERISTICS OF EMPLOYEE HANDLERS, VOLUME II.

PERSONAL AUTHOR: PIERCE, DAVID R.

INSTITUTION CODE: BBB15564

SPONSORING AGENCY CODE: JXQ38625

DESCRIPTOR: CURRICULUM; *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *FARM MANAGEMENT; *PESTICIDES; POLLUTION; POST SECONDARY EDUCATION; *SAFETY; WASTE DISPOSAL; IOWA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 139P.; FOR VOLUME I, SEE SE 023 755

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT, VOL. II IN A SET, PRESENTS THE RESULTS OF THE DEVELOPMENT AND INSTRUCTION OF TWO PILOT MODULES. THE FIRST MODULE DEALS WITH PESTICIDE CONTAINER RECYCLING. THE SECOND MODULE DEALS WITH HAZARDOUS SUBSTANCES, ESPECIALLY PAINTS AND SOLVENTS. (EACH MODULE CONTAINS BACKGROUND INFORMATION, INSTRUCTOR NARRATIVE, STUDENT ACTIVITIES, AND SAMPLE PRE- AND POST-TESTS. A PROGRAM EVALUATION AND RECOMMENDATIONS ARE INCLUDED FOR REFERENCE. (CS)

CONTRACT NUMBER: 76-4300-OL

INSTITUTION NAME: NORTH IOWA AREA COMMUNITY COLL., MASON CITY.

SPONSORING AGENCY NAME: IOWA STATE DEPT. OF PUBLIC INSTRUCTION, DES MOINES.

IRIS ACCESSION NUMBER: EW003126

ERIC ACCESSION NUMBER: ED153788

PUBLICATION DATE: 75

TITLE: DESIGN SEMINAR FOR LAND TREATMENT OF MUNICIPAL WASTEWATER EFFLUENTS.

PERSONAL AUTHOR: DEMIRJIAN, Y. A.

INSTITUTION CODE: BBB15565

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *AGRICULTURAL PRODUCTION; ECONOMICS; ENVIRONMENTAL INFLUENCES; *LAND USE; MUNICIPALITIES; *POLLUTION; RESEARCH; *WATER POLLUTION CONTROL; MICHIGAN

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 81P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT REPORTS THE DEVELOPMENT AND OPERATION OF A COUNTRY-WIDE WASTEWATER TREATMENT PROGRAM. THE PROGRAM WAS DESIGNED TO TREAT LIQUID WASTEWATER BY BIOLOGICAL TREATMENT IN AERATED LAGOONS, STORE IT, AND THEN SPRAY IRRIGATE ON CROP FARMLAND DURING THE GROWING SEASON. THE TEXT DISCUSSES THE PHYSICAL DESIGN OF THE SYSTEM, AGRICULTURAL ASPECTS, MONITORING, RESEARCH, AND ECONOMICS. REFERENCES AND DISCUSSION OF THE CURRENT STATUS OF THE PROJECT ARE INCLUDED. (CS)

INSTITUTION NAME: MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM, MICH.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003127

ERIC ACCESSION NUMBER: ED153790

PUBLICATION DATE: MAR 73

TITLE: LIVESTOCK WASTE MANAGEMENT IN A QUALITY ENVIRONMENT. CIRCULAR 1074.

PERSONAL AUTHOR: JEDELE, D. G., ED.

INSTITUTION CODE: BBB07427; JIM35240

DESCRIPTOR: AGRICULTURAL PRODUCTION; *ENVIRONMENT; *FARM MANAGEMENT; LAND USE; LIVESTOCK; *POLLUTION; WATER POLLUTION CONTROL; ILLINOIS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 16P.

ISSUE: RIESEP78

ABSTRACT: THIS CIRCULAR PROVIDES INFORMATION TO ASSIST IN ASSESSING THE POLLUTION POTENTIAL OF LIVESTOCK OPERATIONS. IT DISCUSSES A SYSTEMATIC APPROACH TO RESOLVING PROBLEMS THROUGH FEEDLOT RUNOFF CONTROL, LIQUID MANURE HANDLING, HAULING AND LAGOONING, AND DITCHING. (CS)

INSTITUTION NAME: ILLINOIS UNIV., URBANA. COLL. OF AGRICULTURE.; ILLINOIS UNIV., URBANA. COOPERATIVE EXTENSION SERVICE.

IRIS ACCESSION NUMBER: EW003128

ERIC ACCESSION NUMBER: ED153794

PUBLICATION DATE: MAY 75

TITLE: GUIDANCE FOR PREPARING A FACILITY PLAN. REVISED EDITION.

INSTITUTION CODE: BBB13327

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *FACILITY PLANNING; *GRANTS; MUNICIPALITIES; POLLUTION; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 41P.; CONTAINS OCCASIONAL LIGHT TYPE; APPENDIX B - CONSTRUCTION GRANT REGULATION - HAS BEEN REMOVED PRIOR TO BEING SHIPPED TO EDRS DUE TO MARGINAL LEGIBILITY

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT PROVIDES INFORMATION TO ASSIST WITH PREPARING A PRELIMINARY FACILITY PLAN FOR CONSTRUCTION OF MUNICIPAL SEWAGE TREATMENT WORKS. THE TEXT DESCRIBES THE REQUIREMENTS IN THE APPLICABLE LAWS AND REGULATIONS AND SUGGESTS A PLANNING PROCESS BY WHICH THEY CAN BE MET. (CS)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003129

ERIC ACCESSION NUMBER: ED153784

PUBLICATION DATE: OCT 73

TITLE: PROCESSES, PROCEDURES, AND METHODS TO CONTROL POLLUTION RESULTING FROM SILVICULTURAL ACTIVITIES.

INSTITUTION CODE: BBB13327

DESCRIPTOR: ENVIRONMENT; *FORESTRY; *LAND USE; MANAGEMENT SYSTEMS; NATURAL RESOURCES; PESTICIDES; POLLUTION; *POST SECONDARY EDUCATION; *SOIL CONSERVATION; *STATE OF THE ART REVIEWS; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 160P.; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIESEP78

ABSTRACT: THIS REPORT PRESENTS BRIEF DOCUMENTATION OF SILVICULTURAL PRACTICES, BOTH THOSE NOW IN USE AND THOSE IN STAGES OF RESEARCH AND DEVELOPMENT. A MAJORITY OF THE TEXT IS CONCERNED WITH THE SPECIFIC ASPECTS OF SILVICULTURAL ACTIVITIES WHICH RELATE TO NONPOINT SOURCE POLLUTION CONTROL METHODS. ANALYZED ARE EXISTING AND NEAR FUTURE POLLUTION CONTROL METHODS IN TERMS OF TECHNICAL AND ECONOMIC PRACTICABILITY AND USEFULNESS. IT PROVIDES INFORMATION OF A GENERAL NATURE REGARDING PROCESSES, PROCEDURES, AND METHODS FOR CONTROLLING POLLUTION CAUSED BY SEDIMENT RUNOFF FROM LOGGING ROADS, SKID TRAILS, AND OTHER AREAS OF UNDISTURBED SOILS IN FOREST AREAS; PESTICIDES AND FERTILIZERS USED IN FOREST REGENERATION ACTIVITIES; CHEMICALS AND OTHER MATERIALS APPLIED FOR FOREST FIRE PREVENTION; AND TEMPERATURE INCREASES IN SMALL STREAMS EXPOSED TO SOLAR RADIATION BY LOGGING OF BORDERING TIMBER STANDS. (AUTHOR/CS)

REPORT NUMBER: EPA-430/9-73-010

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($1.25)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003130

ERIC ACCESSION NUMBER: ED153787

PUBLICATION DATE: JUN 74

TITLE: LAND APPLICATION OF SEWAGE EFFLUENTS AND SLUDGES: SELECTED ABSTRACTS.

INSTITUTION CODE: BBB06757

DESCRIPTOR: *ABSTRACTS; ENVIRONMENT; *LAND USE; *POLLUTION; PUBLIC HEALTH; *SANITATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *LAND MANAGEMENT; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$15.39 PLUS POSTAGE.

DESCRIPTIVE NOTE: 276P.

ISSUE: RIESEP78

ABSTRACT: THIS REPORT CONTAINS 568 SELECTED ABSTRACTS CONCERNED WITH THE LAND APPLICATION OF SEWAGE EFFLUENTS AND SLUDGES. THE ABSTRACTS ARE ARRANGED IN CHRONOLOGICAL GROUPINGS OF TEN-YEAR PERIODS FROM THE 1940'S TO THE MID-1970'S. THE REPORT ALSO INCLUDES AN AUTHOR INDEX AND A SUBJECT MATTER INDEX TO FACILITATE REFERENCE TO SPECIFIC ABSTRACTS OR NARROWER SUBJECT MATTER AREAS. (CS)

REPORT NUMBER: EPA-660/2-74-042

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($2.80)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.

IRIS ACCESSION NUMBER: EW003131

ERIC ACCESSION NUMBER: ED153792

PUBLICATION DATE: MAR 75

TITLE: TECHNICAL BULLETIN, EVALUATION OF LAND APPLICATION SYSTEMS: EVALUATION CHECKLIST AND SUPPORTING COMMENTARY.

INSTITUTION CODE: BBB13327

DESCRIPTOR: COST EFFECTIVENESS; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; MAINTENANCE; *MANAGEMENT SYSTEMS; *POLLUTION; *WATER POLLUTION CONTROL; *LAND MANAGEMENT; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 189P.; MARGINAL LEGIBILITY IN APPENDIX G

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT CONTAINS A CHECKLIST AND BACKGROUND INFORMATION FOR THE EVALUATION FOR LAND APPLICATION SYSTEMS OF WASTEWATER. IT IS DIVIDED INTO THREE MAJOR SECTIONS DEALING WITH FACILITIES PLANS, DESIGN PLANS AND SPECIFICATIONS, AND OPERATION AND MAINTENANCE MANUALS. THE FOCUS OF SECTION ONE IS THE THOROUGH EVALUATION OF ALTERNATIVES AND THE PREPARATION OF A DETAILED FACILITIES PLAN. SECTION TWO DESCRIBES THE PROCEDURES FOR EVALUATING DESIGN PLANS AND SPECIFICATIONS. SPECIAL CONSIDERATIONS WITH RESPECT TO OPERATION, MONITORING AND CONTROLLING SYSTEMS ARE DISCUSSED IN SECTION THREE. (CS)

REPORT NUMBER: EPA-430/9-75-001

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003132

ERIC ACCESSION NUMBER: ED153793

PUBLICATION DATE: 73

TITLE: IDENTIFICATION AND CONTROL OF POLLUTION FROM SALT WATER INTRUSION.

INSTITUTION CODE: BBB13327

DESCRIPTOR: ENVIRONMENT; *FEDERAL LEGISLATION; GEOLOGY; *MANAGEMENT; NATURAL RESOURCES; OCEANOLOGY; *POLLUTION; REFERENCE MATERIALS; *WATER POLLUTION CONTROL; *WATER RESOURCES; *SALT WATER INTRUSION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 104P.

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT CONTAINS INFORMATIONAL GUIDELINES FOR IDENTIFYING AND EVALUATING THE NATURE AND EXTENT OF POLLUTION FROM SALT WATER INTRUSION. THE INTENT OF THESE GUIDELINES IS TO PROVIDE A BASIC FRAMEWORK FOR ASSESSING SALT WATER INTRUSION PROBLEMS AND THEIR RELATIONSHIP TO THE TOTAL HYDROLOGIC SYSTEM, AND TO PROVIDE ASSISTANCE IN

DEVELOPING AREAWIDE WASTE TREATMENT MANAGEMENT PLANS IN ACCORDANCE WITH THE REQUIREMENTS OF THE FEDERAL WATER POLLUTION CONTROL ACT. (CS)

REPORT NUMBER: EPA-430/9-73-013

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($1.25)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003133

ERIC ACCESSION NUMBER: ED153800

PUBLICATION DATE: 77

TITLE: WASTE MANAGEMENT, TREATMENT, AND DISPOSAL FOR THE FOOD PROCESSING INDUSTRY. SPECIAL CIRCULAR 113.

PERSONAL AUTHOR: WOODING, N. HENRY

INSTITUTION CODE: BBB06081

DESCRIPTOR: ENVIRONMENT; *FOOD; MANAGEMENT SYSTEMS; *POLLUTION; PUBLIC HEALTH; *SANITATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *FOOD PROCESSING; SOLID WASTES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.; FOR RELATED DOCUMENTS, SEE SE 023 979-981; ENTIRE DOCUMENT MARGINALLY LEGIBLE

ISSUE: RIESEP78

ABSTRACT: THIS PUBLICATION CONTAINS INFORMATION RELATING TO WASTE PREVENTION, TREATMENT AND DISPOSAL, AND WASTE PRODUCT UTILIZATION. ITS PRIMARY PURPOSE IS TO PROVIDE INFORMATION THAT WILL HELP THE FOOD INDUSTRY EXECUTIVE RECOGNIZE WASTE PROBLEMS AND MAKE WISE MANAGEMENT DECISIONS. THE DISCUSSION OF THE METHODS, TECHNIQUES, AND THE STATE-OF-THE-ART IS GENERAL AND BRIEF. (CS)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE, MATHEMATICS, & ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIV., 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (ON LOAN)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW003134

ERIC ACCESSION NUMBER: ED153801

PUBLICATION DATE: 77

TITLE: DISPOSAL OF LIQUID WASTES FROM PARLORS AND MILKHOUSES. SPECIAL CIRCULAR 154.

PERSONAL AUTHOR: WOODING, N. HENRY

INSTITUTION CODE: BBB06081

DESCRIPTOR: AGRICULTURAL PRODUCTION; *ENVIRONMENT; *FARM MANAGEMENT; LAND USE; LIVESTOCK; *POLLUTION; WATER POLLUTION CONTROL; PENNSYLVANIA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 13P.; FOR RELATED DOCUMENTS, SEE SE 023 978-981

ISSUE: RIESEP78

ABSTRACT: THIS CIRCULAR PROVIDES INFORMATION TO ASSIST IN ASSESSING THE POLLUTION POTENTIAL OF LIQUID WASTES FROM PARLORS AND MILKHOUSES. APPROACHES TO RESOLVING PROBLEMS THROUGH STABILIZATION LAGOONS, IRRIGATION, AND TANK COLLECTION AS MANDATED IN STATUTORY AUTHORITY ARE DISCUSSED. (CS)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW003135

ERIC ACCESSION NUMBER: ED153802

PUBLICATION DATE: 77

TITLE: HOME SEWAGE DISPOSAL. SPECIAL CIRCULAR 212.

PERSONAL AUTHOR: WOODING, N. HENRY

INSTITUTION CODE: BBB06081

DESCRIPTOR: ENVIRONMENT; *ENVIRONMENTAL CRITERIA; *HOME MANAGEMENT; POLLUTION; SANITATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; PENNSYLVANIA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 24P.; FOR RELATED DOCUMENTS, SEE SE 023 978-981

ISSUE: RIESEP78

ABSTRACT: THIS CIRCULAR PROVIDES CURRENT INFORMATION FOR HOMEOWNERS WHO MUST REPAIR OR REPLACE EXISTING ON-LOT SEWAGE DISPOSAL SYSTEMS. SITE REQUIREMENTS, CHARACTERISTICS AND PREPARATION ARE OUTLINED FOR A VARIETY OF ALTERNATIVES SUCH AS ELEVATED SAND MOUNDS, SAND-LINED BEDS AND TRENCHES, AND OVERSIZED ABSORPTION AREA. DIAGRAMS INDICATING CONSTRUCTION REQUIREMENTS ARE INCLUDED. (CS)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW003136

ERIC ACCESSION NUMBER: ED153803

PUBLICATION DATE: 77

TITLE: ALTERNATE METHODS OF EFFLUENT DISPOSAL FOR ON-LOT HOME SEWAGE SYSTEMS. SPECIAL CIRCULAR 214.

PERSONAL AUTHOR: WOODING, N. HENRY

INSTITUTION CODE: BBB06081

DESCRIPTOR: ENVIRONMENT; *ENVIRONMENTAL CRITERIA; *HOME MANAGEMENT; POLLUTION; SANITATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER RESOURCES; PENNSYLVANIA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 17P.; FOR RELATED DOCUMENTS, SEE SE 023 978-980; CONTAINS OCCASIONAL LIGHT AND SMALL TYPE

ISSUE: RIESEP78

ABSTRACT: THIS CIRCULAR PROVIDES CURRENT INFORMATION FOR HOMEOWNERS WHO MUST REPAIR OR REPLACE EXISTING ON-LOT SEWAGE DISPOSAL SYSTEMS. SEVERAL ALTERNATIVES SUCH AS ELEVATED SAND MOUNDS, SAND-LINED BEDS AND TRENCHES AND OVERSIZED ABSORPTION AREAS ARE DISCUSSED. SITE CHARACTERISTICS AND PREPARATION ARE OUTLINED. EACH ALTERNATIVE IS ACCOMPANIED BY A DIAGRAM INDICATING CONSTRUCTION REQUIREMENTS. (CS)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW003137

ERIC ACCESSION NUMBER: ED153860

PUBLICATION DATE: 76

TITLE: OPERATION OF WASTEWATER TREATMENT PLANTS, MANUAL OF PRACTICE NO. 11.

PERSONAL AUTHOR: ALBERTSON, ORRIE E.; AND OTHERS

INSTITUTION CODE: BBB15582

DESCRIPTOR: ENVIRONMENT; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; TECHNICAL REPORTS; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 536P.

ISSUE: RIESEP78

ABSTRACT: THIS BOOK IS INTENDED TO BE A REFERENCE OR TEXTBOOK ON THE OPERATION OF WASTEWATER TREATMENT PLANTS. THE BOOK CONTAINS THIRTY-ONE CHAPTERS AND THREE APPENDICES AND INCLUDES THE DESCRIPTION, REQUIREMENTS, AND LATEST TECHNIQUES OF CONVENTIONAL UNIT PROCESS OPERATION, AS WELL AS THE SYMPTOMS AND CORRECTIVE MEASURES REGARDING PROCESS PROBLEMS. PROCESS SUBJECTS DISCUSSED INCLUDE ROTATING BIOLOGICAL REACTORS, OXYGEN ACTIVATED SLUDGE SYSTEMS, STABILIZATION LAGOONS, AND PHYSICAL-CHEMICAL TREATMENT. MANAGEMENT TOPICS INCLUDED ARE EFFLUENT DISPOSAL, BY-PRODUCT SOLIDS DISPOSAL, PROCESS MANAGEMENT AND CONTROL, ODOR CONTROL, AND ENERGY CONVERSION. THE APPENDICES INCLUDE AN ABBREVIATED GLOSSARY, LABORATORY PROCEDURES, AND UNITS OF MEASUREMENT. (BB)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., N.W., WASHINGTON, D.C. 20037 (NO PRICE QUOTED)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003138

ERIC ACCESSION NUMBER: ED154982

PUBLICATION DATE: SEP 77

TITLE: RESIDUALS MANAGEMENT AND WATER POLLUTION CONTROL PLANNING.

INSTITUTION CODE: BBB15277

DESCRIPTOR: *CITIZEN PARTICIPATION; ENVIRONMENT; *FEDERAL LEGISLATION; MANAGEMENT SYSTEMS; *POLLUTION; PUBLIC HEALTH; REFERENCE MATERIALS; *WASTES; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 16P.; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS PAMPHLET ADDRESSES THE PROBLEMS ASSOCIATED WITH RESIDUALS AND WATER QUALITY ESPECIALLY AS IT RELATES TO THE NATIONAL WATER POLLUTION CONTROL PROGRAM. THE TYPES OF RESIDUALS AND APPROPRIATE MANAGEMENT SYSTEMS ARE DISCUSSED. ADDITIONALLY, ONE SECTION IS DEVOTED TO THE ROLE OF CITIZEN PARTICIPATION IN DEVELOPING MANAGEMENT PROGRAMS. (CS)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF PUBLIC AFFAIRS.

IRIS ACCESSION NUMBER: EW003139

ERIC ACCESSION NUMBER: ED154985

PUBLICATION DATE: 71

TITLE: AN ACCOUNTING SYSTEM FOR SOLID WASTE MANAGEMENT IN SMALL COMMUNITIES.

PERSONAL AUTHOR: ZAUSNER, ERIC R.

INSTITUTION CODE: BBB10428

DESCRIPTOR: *ACCOUNTING; *COMMUNITY SERVICES; ENVIRONMENT; *MANAGEMENT SYSTEMS; MUNICIPALITIES; POLLUTION; *POST SECONDARY EDUCATION; REFERENCE MATERIALS; *SANITATION; WASTES; *SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 26P.

ISSUE: RIEOCT78

ABSTRACT: THIS PAMPHLET PROVIDES A GUIDE TO THE TYPE AND QUANTITY OF INFORMATION TO BE COLLECTED FOR EFFECTIVE SOLID WASTE MANAGEMENT IN SMALL COMMUNITIES. IT IS DIRECTED AT MUNICIPAL OR PRIVATE PERSONNEL INVOLVED IN THE OPERATION AND OWNERSHIP OF MANAGEMENT FACILITIES. SAMPLE ACTIVITY REPORTS ARE INCLUDED FOR REFERENCE. (CS)

REPORT NUMBER: EPA-SW-28-TS

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 5502-0021, $0.30)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. SOLID WASTE MANAGEMENT OFFICE.

IRIS ACCESSION NUMBER: EW003140

ERIC ACCESSION NUMBER: ED155013

PUBLICATION DATE: MAY 73

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE SLUDGE THICKENING PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 9.

PERSONAL AUTHOR: SCHWING, CARL M.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; INDUSTRIAL TRAINING; *INSTRUCTIONAL MATERIALS; *JOB TRAINING; *POST SECONDARY EDUCATION; SAFETY; TECHNICAL OCCUPATIONS; UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER RESOURCES; *SLUDGE; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 45P.; FOR RELATED DOCUMENTS, SEE SE 024 262-263 AND SE 024 091-097; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEOCT78

ABSTRACT: THIS GUIDE DESCRIBES STANDARD OPERATING JOB PROCEDURES FOR THE SCREENING AND GRINDING PROCESS OF WASTEWATER TREATMENT FACILITIES. THE OBJECTIVE OF THIS PROCESS IS THE REMOVAL OF COARSE MATERIALS FROM THE RAW WASTE STREAM FOR THE PROTECTION OF SUBSEQUENT EQUIPMENT AND PROCESSES. THE GUIDE GIVES STEP-BY-STEP INSTRUCTIONS FOR SAFETY INSPECTION, STARTUP, PROCEDURES, CONTINUOUS OPERATING PROCEDURES, AND SHUTDOWN PROCEDURES. (AUTHOR/BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003141

ERIC ACCESSION NUMBER: ED155014

PUBLICATION DATE: MAY 73

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE DIGESTION PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 10.

PERSONAL AUTHOR: SCHWING, CARL M.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; INDUSTRIAL TRAINING; *INSTRUCTIONAL MATERIALS; *JOB TRAINING; POST SECONDARY EDUCATION; SAFETY; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *SLUDGE DIGESTION; *WASTEWATER TREATMENT; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 49P.; FOR RELATED DOCUMENTS, SEE SE 024 261-263 AND SE 024 091-097; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEOCT78

ABSTRACT: THIS GUIDE DESCRIBES STANDARD OPERATING JOB PROCEDURES FOR THE DIGESTION PROCESS OF WASTEWATER TREATMENT FACILITIES. THIS PROCESS IS FOR REDUCING THE VOLUME OF SLUDGE TO BE TREATED IN SUBSEQUENT UNITS AND TO REDUCE THE VOLATILE CONTENT OF SLUDGE. THE GUIDE GIVES STEP-BY-STEP INSTRUCTIONS FOR PRE-STARTUP, STARTUP, CONTINUOUS OPERATING, SHUTDOWN, AND PREVENTIVE MAINTENANCE PROCEDURES. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003142

ERIC ACCESSION NUMBER: ED155015

PUBLICATION DATE: MAY 73

TITLE: A GUIDE FOR DEVELOPING STANDARD OPERATING JOB PROCEDURES FOR THE SLUDGE CONDITIONING & DEWATERING PROCESS WASTEWATER TREATMENT FACILITY. SOJP NO. 11.

PERSONAL AUTHOR: SCHWING, CARL M.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: *GUIDES; INDUSTRIAL TRAINING; *INSTRUCTIONAL MATERIALS; *JOB TRAINING; POST SECONDARY EDUCATION; SAFETY; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *SLUDGE; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 59P.; FOR RELATED DOCUMENTS, SEE SE 024 261-262 AND SE 024 091-097; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEOCT78

ABSTRACT: THIS GUIDE DESCRIBES STANDARD OPERATING JOB PROCEDURES FOR THE SLUDGE CONDITIONING AND DEWATERING PROCESS OF WASTEWATER TREATMENT FACILITIES. IN THIS PROCESS, SLUDGE IS TREATED WITH CHEMICALS TO MAKE THE SLUDGE COAGULATE AND GIVE UP ITS WATER MORE EASILY. THE TREATED SLUDGE IS THEN DEWATERED USING A VACUUM FILTER. THE GUIDE GIVES STEP-BY-STEP INSTRUCTIONS FOR PRE-STARTUP, STARTUP, CONTINUOUS OPERATING, SHUTDOWN, AND PREVENTIVE MAINTENANCE PROCEDURES. (BB)

GRANT NUMBER: EPA-900253

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003143

ERIC ACCESSION NUMBER: ED155001

PUBLICATION DATE: NOV 76

TITLE: BASIC SEWAGE TREATMENT OPERATION.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; JOB SKILLS; *POLLUTION; SAFETY; SAMPLING; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WORKSHOPS; ONTARIO

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 247P.; FOR RELATED DOCUMENTS, SEE SE 024 227-233; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED TO INTRODUCE OPERATORS TO THE FUNDAMENTALS OF SEWAGE PLANT OPERATION. THE COURSE CONSISTS OF LECTURE-DISCUSSIONS AND HANDS-ON ACTIVITIES. EACH OF THE LESSONS HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING THAT TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: INTRODUCTION TO SEWAGE TREATMENT, BACTERIOLOGY, PRIMARY TREATMENT, ACTIVATED SLUDGE PROCESS, SAMPLING AND RECORD KEEPING, SAFETY, AND SELECTED TESTS. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY STREET, 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BY ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003144

ERIC ACCESSION NUMBER: ED155002

PUBLICATION DATE: SEP 77

TITLE: PRIMARY TREATMENT AND SLUDGE DIGESTION WORKSHOP.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; EQUIPMENT; JOB SKILLS; *POLLUTION; SAMPLING; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WORKSHOPS; ONTARIO; *SLUDGE; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 269P.; FOR RELATED DOCUMENTS, SEE SE 024 226-233; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED TO UPGRADE THE KNOWLEDGE OF EXPERIENCED WASTEWATER

TREATMENT PLANT OPERATORS. EACH OF THE SIXTEEN LESSONS HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING THAT TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: SEWAGE CHARACTERISTICS; COLLECTION, TREATMENT, AND SEDIMENTATION; AEROBIC AND ANAEROBIC DIGESTION; SAMPLING AND INTERPRETATION; MONITORING AND CONTROL; AND SELECTED TESTS. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY ST., 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BE ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003145

ERIC ACCESSION NUMBER: ED155003

PUBLICATION DATE: JUL 76

TITLE: ACTIVATED SLUDGE PROCESS WORKSHOP MANUAL.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; CHEMISTRY; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; JOB SKILLS; *POLLUTION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WORKSHOPS; ACTIVATED SLUDGE; ONTARIO

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 242P.; FOR RELATED DOCUMENTS, SEE SE 024 226-233; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED TO UPGRADE THE KNOWLEDGE OF EXPERIENCED WASTEWATER TREATMENT PLANT OPERATORS. EACH OF THE LESSONS IN THIS DOCUMENT HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING THAT TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: TYPES AND FACTORS AFFECTING ACTIVATED SLUDGE PROCESSES, IDENTIFICATION AND SOLUTION OF OPERATING PROBLEMS, SELECTED TESTS AND MEASUREMENTS, AND CHEMICAL DETERMINATIONS. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY ST., 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BE ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003146

ERIC ACCESSION NUMBER: ED155004

PUBLICATION DATE: JUN 77

TITLE: BASIC GAS CHLORINATION WORKSHOP MANUAL.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; EQUIPMENT MAINTENANCE; JOB SKILLS; *POLLUTION; SAFETY; *WATER POLLUTION CONTROL; WATER RESOURCES; *WORKSHOPS; GAS CHLORINATION; ONTARIO

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 179P.; FOR RELATED DOCUMENTS, SEE SE 024 226-233; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED TO INTRODUCE TREATMENT PLANT OPERATORS TO THE SAFE OPERATION AND MAINTENANCE OF GAS CHLORINATION SYSTEMS EMPLOYING THE VARIABLE VACUUM GAS CHLORINATOR. EACH OF THE LESSONS IN THIS DOCUMENT HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING THAT TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: CHLORINATION THEORY AND EQUIPMENT, SYSTEM OPERATIONS, AND CHEMICAL TESTING PROCEDURES. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY ST., 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BE ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003147

ERIC ACCESSION NUMBER: ED155005

PUBLICATION DATE: SEP 77

TITLE: PUMP OPERATION WORKSHOP.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; *EQUIPMENT MAINTENANCE; JOB SKILLS; SAFETY; WATER POLLUTION CONTROL; *WORKSHOPS; ONTARIO; PUMPS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 157P.; FOR RELATED DOCUMENTS, SEE SE 024 226-233; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED AS AN EXTENSION OF TRAINING FOR WATER AND WASTEWATER TREATMENT PERSONNEL. THE COURSE CONSISTS OF LECTURE-DISCUSSIONS AND HANDS-ON ACTIVITIES. EACH OF THE LESSONS IN THIS DOCUMENT HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING THAT TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: PUMP SYSTEM CHARACTERISTICS, TYPES OF PUMPS, PUMP CONTROLS, VALVES, MOTORS, AND SAFETY. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY ST., 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BE ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003148

ERIC ACCESSION NUMBER: ED155006

PUBLICATION DATE: JAN 77

TITLE: PREVENTIVE MAINTENANCE WORKSHOP.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; *EQUIPMENT MAINTENANCE; HAND TOOLS; JOB SKILLS; *POLLUTION; WATER POLLUTION CONTROL; *WORKSHOPS; ONTARIO

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 236P.; FOR RELATED DOCUMENTS, SEE SE 024 226-233; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED TO UPGRADE THE KNOWLEDGE OF EXPERIENCED WATER AND WASTEWATER TREATMENT PLANT OPERATORS. THE COURSE CONSISTS OF LECTURE-DISCUSSIONS AND HANDS-ON ACTIVITIES. EACH OF THE LESSONS HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING A TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: HAND TOOLS AND THEIR USES, DRAWINGS AND EQUIPMENT MANUALS, MAINTENANCE OF PIPING AND VALVES, LUBRICATION, BEARINGS, ALIGNMENT, PUMP MAINTENANCE, PACKING AND SEALS. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY ST., 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BE ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003149

ERIC ACCESSION NUMBER: ED155007

PUBLICATION DATE: JUN 76

TITLE: BASIC WATER TREATMENT OPERATION.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; CHEMISTRY; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; JOB SKILLS; *POLLUTION; SAFETY; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WORKSHOPS; ONTARIO

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 299P.; FOR RELATED DOCUMENTS, SEE SE 024 226-233; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED TO INTRODUCE THE FUNDAMENTALS OF WATER TREATMENT PLANT OPERATIONS. THE COURSE CONSISTS OF LECTURE-DISCUSSIONS AND HANDS-ON ACTIVITIES. EACH OF THE FOURTEEN LESSONS IN THIS DOCUMENT HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING THAT TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: WATER BACTERIOLOGY, GROUND WATER SUPPLIES, WATER FILTRATION, CHLORINATION, RECORDS, SAFETY, AND SELECTED TESTS. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY ST., 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BE ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003150

ERIC ACCESSION NUMBER: ED155008

PUBLICATION DATE: AUG 76

TITLE: SURFACE WATER TREATMENT WORKSHOP MANUAL.

INSTITUTION CODE: BBB15659

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; CHEMISTRY; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; JOB SKILLS; *POLLUTION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WORKSHOPS; ONTARIO

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 291P.; FOR RELATED DOCUMENTS, SEE SE 024 226-232; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS MANUAL WAS DEVELOPED FOR USE AT WORKSHOPS DESIGNED TO INCREASE THE KNOWLEDGE OF EXPERIENCED WATER TREATMENT PLANT OPERATORS. EACH OF THE FOURTEEN LESSONS IN THIS DOCUMENT HAS CLEARLY STATED BEHAVIORAL OBJECTIVES TO TELL THE TRAINEE WHAT HE SHOULD KNOW OR DO AFTER COMPLETING THAT TOPIC. AREAS COVERED IN THIS MANUAL INCLUDE: BASIC WATER CHEMISTRY, COAGULATION, TASTE AND ODOR, FILTRATION, CHEMICALS AND TREATMENT, AND SELECTED TESTS. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: PUBLICATIONS CENTRE, ONTARIO MINISTRY OF GOVERNMENT SERVICES, 880 BAY ST., 5TH FLOOR, TORONTO, ONTARIO, CANADA M7A 1N8 ($2.00; ORDERS MUST BE ACCOMPANIED BY CHECK OR MONEY ORDER PAYABLE TO "THE TREASURER OF ONTARIO")

INSTITUTION NAME: ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.

IRIS ACCESSION NUMBER: EW003151

ERIC ACCESSION NUMBER: ED155039

PUBLICATION DATE: 72

TITLE: BENEFICIAL MODIFICATIONS OF THE MARINE ENVIRONMENT. A SYMPOSIUM HELD MARCH 11, 1968, WASHINGTON, D.C.

INSTITUTION CODE: FGK56081

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL RESEARCH; MARINE BIOLOGY; *OCEANOLOGY; PHYSICAL ENVIRONMENT; SCIENCE EDUCATION; *SYMPOSIA; TECHNICAL REPORTS; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 116P.

ISSUE: RIEOCT78

ABSTRACT: THIS VOLUME CONTAINS PAPERS PRESENTED AT A SYMPOSIUM ON BENEFICIAL MODIFICATIONS OF THE MARINE ENVIRONMENT HELD IN MARCH, 1968. INCLUDED ARE FOUR PAPERS AND ACCOMPANYING DISCUSSIONS. ONE PAPER DISCUSSES THE REASON THAT THE PRESENCE OR ABSENCE OF ICE ON THE SEA CAN INFLUENCE THE FORMATION OF CLIMATE AND LOOKS INTO THE FOLLOWING TWO QUESTIONS: (1) IF THE PACK ICE WERE REMOVED, WOULD THE ARTIC OCEAN REMAIN AN OPEN SEA? AND (2) WHAT ARE THE POSSIBILITIES FOR INFLUENCING LARGE-SCALE CLIMATE BY INFLUENCING THE EXTENT OF ICE ON THE SEA? ANOTHER PAPER DEALS WITH THE POSSIBILITY OF EXTRACTING APPRECIABLE QUANTITIES OF ATMOSPHERIC MOISTURE BY PUMPING COLD BOTTOM WATER TO THE SURFACE OF THE OCEAN, TO PROVIDE WATER FOR THE ISLANDS IN THE CARIBBEAN. THE OTHER PAPERS ARE ON WATER TRANSFERS INTO OR BETWEEN THE GREAT LAKES AND ON MODIFICATION OF FLOW IN ESTUARIES. (BB)

AVAILABILITY: PRINTING AND PUBLISHING OFFICE, NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., N.W., WASHINGTON, D.C. 20418 (ORDER NO. ISBN 0-309-02034-4; NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003152

ERIC ACCESSION NUMBER: ED156497

PUBLICATION DATE: 77

TITLE: THE A-B-C OF DESALTING.

INSTITUTION CODE: BBB12767

DESCRIPTOR: CHEMISTRY; *ENVIRONMENT; *GUIDES; *NATURAL RESOURCES; *OCEANOLOGY; PHYSICAL SCIENCES; SCIENCES; TECHNICAL REPORTS; UTILITIES; *WATER RESOURCES; DESALINATION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 35P.; COLOR-CODED DRAWINGS MAY NOT REPRODUCE WELL

ISSUE: RIENOV78

ABSTRACT: THIS PUBLICATION PROVIDES A SIMPLE EXPLANATION OF HOW VARIOUS PROCESSES CONVERT SEA OR BRACKISH WATER TO FRESH WATER. INCLUDED ARE DESCRIPTIONS OF THE MEMBRANE PROCESSES (REVERSE OSMOSIS, ELECTRODIALYSIS, TRANSPORT DEPLETION, AND PIEZODIALYSIS); THE DISTILLATION PROCESSES (MULTISTAGE FLASH DISTILLATION, VERTICAL TUBE DISTILLATION, MULTIEFFECT MULTISTAGE DISTILLATION, VAPOR COMPRESSION DISTILLATION, AND SOLAR HUMIDIFICATION); THE CRYSTALIZATION PROCESSES (VACUUM FREEZE-VAPOR COMPRESSION, SECONDARY REFRIGERANT FREEZING, EUTECTIC FREEZING, AND HYDRATE FORMATION); AND A CHEMICAL PROCESS (ION EXCHANGE). (BB)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 024-000-00836-3; NO PRICE QUOTED)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESEARCH AND TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003153

ERIC ACCESSION NUMBER: ED156420

PUBLICATION DATE: JUN 76

TITLE: BASIC LABORATORY TECHNIQUES FOR THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).

PERSONAL AUTHOR: BONNETTE, A. K., JR.; AND OTHERS

INSTITUTION CODE: BBB09352

DESCRIPTOR: *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; INDEPENDENT STUDY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *LEARNING MODULES; *POLLUTION; POST SECONDARY EDUCATION; SAFETY; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 479P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIENOV78

ABSTRACT: THIS MANUAL CONTAINS 24 SELF-STUDY MODULES FOR BASIC LABORATORY PROCEDURES FOR THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) LABORATORY ANALYSES. AREAS OF STUDY INCLUDE SAFETY, IDENTIFICATION OF EQUIPMENT, HANDLING SOLIDS AND LIQUIDS, USE OF BALANCES, AND CARE AND USE OF EQUIPMENT. EVALUATION TESTS AND ANSWERS ARE PROVIDED FOR EACH MODULE. (CS)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE, MATHEMATICS AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (ON LOAN)

INSTITUTION NAME: CLEMSON UNIV., S.C. COLL. OF ENGINEERING.

IRIS ACCESSION NUMBER: EW003154

ERIC ACCESSION NUMBER: ED156434

PUBLICATION DATE: 77

TITLE: DRINKING WATER AND HEALTH.

INSTITUTION CODE: BBB01389

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: BIOLOGY; CHEMISTRY; DISEASES; ENVIRONMENT; *HEALTH; MICROBIOLOGY; PESTICIDES; POLLUTION; *PUBLIC HEALTH; *SCIENTIFIC RESEARCH; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$1.67 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 941P.; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIENOV78

ABSTRACT: IN RESPONSE TO A PROVISION OF THE SAFE DRINKING WATER ACT OF 1974 WHICH CALLED FOR A STUDY THAT WOULD SERVE AS A SCIENTIFIC BASIS FOR REVISING THE PRIMARY DRINKING WATER REGULATIONS THAT WERE PROMULGATED UNDER THE ACT, A STUDY OF THE SCIENTIFIC LITERATURE WAS UNDERTAKEN IN ORDER TO ASSESS THE IMPLICATIONS FOR HUMAN HEALTH OF THE CONSTITUENTS OF DRINKING WATER IN THE UNITED STATES. THE RISK TO PEOPLE OF CONTAMINANTS INGESTED IN DRINKING WATER WAS EVALUATED ON THE BASIS OF BOTH EPIDEMIOLOGICAL AND LAB ANIMAL STUDIES. FIVE CLASSES OF CONTAMINANTS WERE EXAMINED: MICROORGANISMS, PARTICULATE MATTER, INORGANIC SOLUTES, ORGANIC SOLUTES, AND RADIONUCLIDES. HEALTH EFFECTS ASSOCIATED WITH 22 INORGANIC SOLUTES WERE REVIEWED. IN ADDITION, 129 ORGANIC COMPOUNDS (INCLUDING 55 PESTICIDES) WERE EXAMINED. A LIST OF COMPOUNDS IN DRINKING WATER THAT ARE KNOWN OR SUSPECTED CARCINOGENS WAS PREPARED. ALSO, AN ACCEPTABLE DAILY INTAKE WAS CALCULATED FOR 45 COMPOUNDS THAT WERE JUDGED TO BE POTENTIALLY TOXIC BUT NOT CARCINOGENIC. (AUTHOR/BB)

CONTRACT NUMBER: EPA-68-01-3139

AVAILABILITY: PRINTING AND PUBLISHING OFFICE, NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., WASHINGTON, D.C. 20418 ($20.75)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES, WASHINGTON, D.C.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003155

ERIC ACCESSION NUMBER: ED156436

PUBLICATION DATE: 73

TITLE: FUNDAMENTAL MATHEMATICS FOR WATER AND WASTEWATER TREATMENT PLANT OPERATORS, BOOK 1.

PERSONAL AUTHOR: KIRKPATRICK, JOANNE

DESCRIPTOR: *CALCULATION; ENVIRONMENT; *ENVIRONMENTAL TECHNICIANS; JOB SKILLS; MATHEMATICS; *POLLUTION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 490P.

ISSUE: RIENOV78

ABSTRACT: THIS BOOK IS ONE IN A SERIES DEVELOPED TO BRIDGE THE GAP BETWEEN THE REASONING PROCESS AND THE LANGUAGE OF MATHEMATICS. CHAPTER ONE OF EACH VOLUME DISCUSSES THE THEORETICAL CONCEPTS WHICH ARE ESSENTIAL IN UNDERSTANDING THE CALCULATIONS PRESENTED ELSEWHERE IN THE BOOK. THIS BOOK'S CHAPTER 1 DEALS WITH BASICS SUCH AS FRACTIONS, DECIMALS, RATIOS, CONVERSIONS, AREAS AND VOLUMES. THE REMAINDER OF THE TEXT IS DEVOTED TO PROVIDING A FUNDAMENTAL UNDERSTANDING OF THE VARIOUS CALCULATIONS ENCOUNTERED IN EACH PROCESS OF WATER AND WASTEWATER TREATMENT. (CS)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE, MATHEMATICS AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OHIO 43212 (ON LOAN)

IRIS ACCESSION NUMBER: EW003156

ERIC ACCESSION NUMBER: ED156476

PUBLICATION DATE: MAR 78

TITLE: SETTING THE COURSE FOR CLEAN WATER: A CITIZEN'S GUIDE TO THE SECTION 208 WATER QUALITY MANAGEMENT PROGRAM.

PERSONAL AUTHOR: DONLEY, DIANE L.; ALBRIGHT, CATHERINE

INSTITUTION CODE: BBB04048

SPONSORING AGENCY CODE: BBB15002

DESCRIPTOR: *CITIZEN PARTICIPATION; CITIZEN ROLE; *ENVIRONMENT; *FEDERAL LEGISLATION; FEDERAL PROGRAMS; *POLLUTION; UTILITIES; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WASTEWATER TREATMENT; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 67P.; NOT AVAILABLE IN HARD COPY DUE TO SMALL PRINT THROUGHOUT ENTIRE DOCUMENT; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIENOV78

ABSTRACT: THIS IS A CITIZEN'S GUIDE TO THE SECTION 208 WATER QUALITY MANAGEMENT PROGRAM. SECTION 208 REFERS TO THAT SECTION OF THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972 (THE CLEAN WATER ACT) WHICH CALLS FOR PUBLIC PARTICIPATION IN WATER QUALITY MANAGEMENT PLANNING. INCLUDED IN THIS GUIDE ARE CHAPTERS ON CONTROLLING POLLUTION THROUGH THE CLEAN WATER ACT, IMPORTANT REQUIREMENTS OF SECTION 208 WATER QUALITY MANAGEMENT PLANNING, AND PROGRAMS TO PREVENT POLLUTION. THROUGHOUT THE GUIDE ARE PROVIDED TECHNICAL AND LEGAL INFORMATION ON VARIOUS ISSUES RELATED TO WATER QUALITY SUCH AS WASTE DISPOSAL, MINING ACTIVITIES, SEPTIC TANKS, AND AGRICULTURAL ACTIVITIES. ALSO INCLUDED ARE LISTS OF SUGGESTED CITIZEN ACTIVITIES RELATED TO EACH ISSUE. (BB)

AVAILABILITY: NATIONAL WILDLIFE FEDERATION, EDUCATION DIVISION, 1412 16TH ST., N.W., WASHINGTON, D.C. 20036 (SINGLE COPY FREE, ADDITIONAL COPIES $2.00)

INSTITUTION NAME: NATIONAL WILDLIFE FEDERATION, WASHINGTON, D. C.

SPONSORING AGENCY NAME: NATURAL RESOURCES DEFENSE COUNCIL, INC., WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003157

ERIC ACCESSION NUMBER: ED156483

PUBLICATION DATE: 77

TITLE: WATER: HOW GOOD IS GOOD ENOUGH? STUDENT BOOK. SCIENCE MODULE (9TH-10TH GRADE CHEMISTRY). REVISED EDITION.

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: COURSE CONTENT; *ENVIRONMENTAL EDUCATION; EXPERIENTIAL LEARNING; *INSTRUCTIONAL MATERIALS; POLLUTION; SCIENCE EDUCATION; *SECONDARY EDUCATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 66P.; FOR RELATED DOCUMENTS, SEE SE 024 440-447; PORTIONS OF OR THE ENTIRE PAGE OF PAGES 31-32, AND 40-42 HAVE BEEN REMOVED DUE TO COPYRIGHT RESTRICTIONS; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIENOV78

ABSTRACT: THIS LEARNING MODULE IS DESIGNED TO INTEGRATE ENVIRONMENTAL EDUCATION INTO NINTH- AND TENTH-GRADE CHEMISTRY CLASSES. THIS MODULE AND A COMPANION SOCIAL STUDIES MODULE WERE PILOT TESTED IN GWINNETT COUNTY, GEORGIA IN CLASSES OF STUDENTS, MANY OF WHOM HAD LEARNING DISABILITIES. IT EMPHASIZES ACTIVITY LEARNING. THE MODULE IS DIVIDED INTO FOUR PARTS. PART ONE IS ON WATER SOURCES, PART TWO ON WATER QUALITY, PART THREE ON SEWAGE TREATMENT, AND PART FOUR IS A REVIEW (THE WATER GAME). THERE IS A TOTAL OF 14 ACTIVITIES DESIGNED FOR 14 DAYS. SOME OF THE ACTIVITIES ARE A FIELD TRIP TO THE COUNTY WATER TREATMENT PLANT, THE HYDROLOGIC CYCLE, A CLOUD FORMATION DEMONSTRATION, AND AN INVESTIGATION OF THE WATER TABLE. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003158

ERIC ACCESSION NUMBER: ED156484

PUBLICATION DATE: 77

TITLE: WATER: HOW GOOD IS GOOD ENOUGH? TEACHER'S GUIDE. SCIENCE MODULE (9TH-10TH GRADE CHEMISTRY).

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: COURSE CONTENT; CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; EXPERIENTIAL LEARNING; *INSTRUCTIONAL MATERIALS; SCIENCE EDUCATION; *SECONDARY EDUCATION; *TEACHING GUIDES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 51P.; FOR RELATED DOCUMENTS, SEE SE 024 440-447; PAGE 21 REMOVED DUE TO COPYRIGHT RESTRICTIONS; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIENOV78

ABSTRACT: THIS IS A TEACHER'S GUIDE FOR A MODULE DESIGNED TO INTEGRATE ENVIRONMENTAL EDUCATION INTO NINTH- AND TENTH-GRADE CHEMISTRY CLASSES. THE MODULE, PILOT TESTED IN GWINNETT COUNTY, GEORGIA IN CLASSES OF STUDENTS, MANY OF WHOM HAD LEARNING DISABILITIES, EMPHASIZES ACTIVITY LEARNING AND CONSIDERABLE REVIEW. THE MODULE IS DIVIDED INTO FOUR PARTS. PART ONE IS ON WATER SOURCES, PART TWO ON WATER QUALITY, PART THREE ON SEWAGE TREATMENT, AND PART FOUR (THE WATER GAME) IS A REVIEW. THERE IS A TOTAL OF 14 ACTIVITIES DESIGNED FOR 14 DAYS. SUMMARY STATEMENTS, BROAD OBJECTIVES, DISCUSSION TOPICS AND QUESTIONS, SUPPLEMENTARY RESOURCES, AND HELPFUL HINTS ARE GIVEN FOR EACH ACTIVITY. ALSO INCLUDED IN THE GUIDE ARE A LIST OF OVERALL OBJECTIVES, THE MODULE SEQUENCE, AND A LIST OF EQUIPMENT AND SUPPLIES. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003159

ERIC ACCESSION NUMBER: ED156485

PUBLICATION DATE: 77

TITLE: WATER: HOW GOOD IS GOOD ENOUGH? STUDENT BOOK. SOCIAL STUDIES MODULE (9TH-10TH GRADE SOCIAL STUDIES).

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: CONSERVATION EDUCATION; COURSE CONTENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; POLLUTION; SCIENCE EDUCATION; *SECONDARY EDUCATION; *SOCIAL SCIENCES; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 78P.; FOR RELATED DOCUMENTS, SEE SE 024 440-447; PORTIONS OF OR THE ENTIRE PAGE OF PAGES 18-20, 45-46, AND 49 HAVE BEEN REMOVED DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIENOV78

ABSTRACT: THIS IS AN ENVIRONMENTAL EDUCATION MODULE FOR INTEGRATING TOPICS OF WATER QUALITY IN NINTH- AND TENTH-GRADE SOCIAL STUDIES CLASSES. THE MODULE WAS PILOT TESTED IN GWINNETT COUNTY, GEORGIA IN 1975-76. THE MODULE SEQUENCE IS DIVIDED INTO FOUR PARTS. THE FIRST PART PROVIDES AN INTRODUCTORY EPISODE TO STIMULATE STUDENT INTEREST IN AN ENVIRONMENTAL ISSUE CONCERNING WATER. THE SECOND PART IS DESIGNED TO IMPROVE UNDERSTANDING OF WATER SOURCES AND TREATMENT. THE THIRD PART DEVELOPS SOCIAL STUDIES CONCEPTS AROUND EXAMPLES FROM THE COUNTY COMMUNITY. THE FOURTH PART HAS THE STUDENT APPLY WHAT HE/SHE HAS LEARNED TO PREPARE A PUBLICITY PROJECT. THIS MODULE IS INTENDED TO ACCOMPANY A SIMILAR ONE IN NINTH- AND TENTH-GRADE CHEMISTRY CLASSES. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003160

ERIC ACCESSION NUMBER: ED156486

PUBLICATION DATE: 77

TITLE: WATER: HOW GOOD IS GOOD ENOUGH? TEACHER'S GUIDE. SOCIAL STUDIES MODULE (9TH-10TH GRADE SOCIAL STUDIES).

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: CONSERVATION EDUCATION; *CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; POLLUTION; SCIENCE EDUCATION; *SECONDARY EDUCATION; *SOCIAL SCIENCES; *TEACHING GUIDES; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 40P.; FOR RELATED DOCUMENTS, SEE SE 024

440-446; PAGES 27-28 MISSING FROM DOCUMENT PRIOR TO BEING SHIPPED TO EDRS FOR FILMING; BEST COPY AVAILABLE; PAGES 33-34 REMOVED DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIENOV78

ABSTRACT: THIS TEACHER'S GUIDE IS FOR AN ENVIRONMENTAL EDUCATION MODULE TO INTEGRATE TOPICS OF WATER QUALITY IN NINTH- AND TENTH-GRADE SOCIAL STUDIES CLASSES. THIS MODULE WAS PILOT TESTED IN GWINNETT COUNTY, GEORGIA IN 1975-76. INCLUDED IN THE GUIDE ARE OVERALL OBJECTIVES, THE MODULE SEQUENCE, AN INTRODUCTION, A SUGGESTED TEACHING SEQUENCE, A WORD REVIEW GAME, AND REVIEW AND READING EXERCISES. THE MODULE SEQUENCE IS DIVIDED INTO FOUR PARTS. THE FIRST PART PROVIDES AN INTRODUCTORY EPISODE TO STIMULATE STUDENT INTEREST IN AN ENVIRONMENTAL ISSUE CONCERNING WATER. THE SECOND PART IS DESIGNED TO IMPROVE UNDERSTANDING OF WATER RESOURCES AND TREATMENT. THE THIRD PART DEVELOPS SOCIAL STUDIES CONCEPTS AROUND EXAMPLES FROM THE COUNTY COMMUNITY. IN THE FOURTH PART, THE STUDENT APPLIES WHAT HE/SHE HAS LEARNED TO PREPARE A PUBLICITY PROJECT. THIS MODULE IS INTENDED TO GO WITH A SIMILAR ONE IN NINTH- AND TENTH-GRADE CHEMISTRY CLASSES. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003161

ERIC ACCESSION NUMBER: ED156522

PUBLICATION DATE: JUN 78

TITLE: LEARNER'S GUIDE: WATER QUALITY MONITORING. AN INSTRUCTIONAL GUIDE FOR THE TWO-YEAR WATER QUALITY MONITORING CURRICULUM.

PERSONAL AUTHOR: GLAZER, RICHARD B.; AND OTHERS

INSTITUTION CODE: BBB09713

SPONSORING AGENCY CODE: BBB13252

DESCRIPTOR: CHEMICAL TECHNICIANS; *COURSE DESCRIPTIONS; *CURRICULUM GUIDES; ENGINEERING TECHNICIANS; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; *TECHNICAL EDUCATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$14.05 PLUS POSTAGE.

DESCRIPTIVE NOTE: 254P.; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIENOV78

ABSTRACT: THIS LEARNER'S GUIDE IS DESIGNED TO MEET THE TRAINING NEEDS FOR TECHNICIANS INVOLVED IN MONITORING ACTIVITIES RELATED TO THE FEDERAL WATER POLLUTION ACT AND THE SAFE DRINKING WATER ACT. IN ADDITION IT WILL ASSIST TECHNICIANS IN LEARNING HOW TO PERFORM PROCESS CONTROL LABORATORY PROCEDURES FOR DRINKING WATER AND WASTEWATER TREATMENT PLANT OPERATIONS, AS WELL AS THOSE TESTS, ANALYSES, AND PROCEDURES REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATORY AGENCIES. CONTAINED IN THE GUIDE ARE NINE COURSES, COMPRISING 93 INSTRUCTIONAL MODULES. THE COMPLETE CURRICULUM CAN BE TAKEN IN TWO YEARS. THE SEQUENCE IN WHICH THE COURSES SHOULD BE TAKEN IS GIVEN. HOWEVER, EACH COURSE IS INDEPENDENT OF THE OTHERS AND A VARIETY OF INSTRUCTIONAL PATHWAYS IS POSSIBLE FOR TRAINING TECHNICIANS TO DO SPECIFIC TASKS. EACH INSTRUCTIONAL UNIT GIVES THE PURPOSE, PREREQUISITES, RESOURCES, OBJECTIVES, CONDITIONS, AND EXPECTED PERFORMANCE LEVEL. INCLUDED IN THE GUIDE ARE UNITS ON: AUTOCLAVES, BIOCHEMICAL OXYGEN DEMAND, FUNCTIONS OF WASTEWATER TREATMENT PROCESSES, GRIT ANALYSIS, GAS CHROMATOGRAPHY, AND SAMPLING ROUTINES. (BB)

GRANT NUMBER: EPA-T-900508-01

INSTITUTION NAME: ULSTER COUNTY COMMUNITY COLL., STONE RIDGE, N.Y.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF MANPOWER TRAINING.

IRIS ACCESSION NUMBER: EW003162

ERIC ACCESSION NUMBER: ED156525

PUBLICATION DATE: 76

TITLE: SIMPLIFIED LABORATORY PROCEDURES FOR WASTEWATER EXAMINATION. SECOND EDITION.

INSTITUTION CODE: BBB15582

DESCRIPTOR: ENVIRONMENT; GUIDES; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; MANUALS; *POLLUTION; *POST SECONDARY EDUCATION; *UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 56P.

ISSUE: RIENOV78

ABSTRACT: THIS BOOKLET IS FOR WASTEWATER TREATMENT PLANT OPERATORS WHO FIND IT DIFFICULT TO FOLLOW THE DETAILED DISCUSSIONS AND PROCEDURES FOUND IN "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER." IT IS INTENDED TO BE USED WITH "STANDARD METHODS" AVAILABLE FOR REFERENCE. INCLUDED IN THIS PUBLICATION ARE CHAPTERS ON LABORATORY PROCEDURES, LABORATORY ANALYSIS, PHYSICAL AND CHEMICAL EXAMINATION, MICROBIOLOGICAL EXAMINATIONS, AND RECORDING DATA. SIMPLIFIED METHODS FOR THE EXAMINATION OF INDUSTRIAL WASTES AND WASTEWATERS CONTAINING SIGNIFICANT AMOUNTS OF INDUSTRIAL WASTE ARE NOT INCLUDED. (BB)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVENUE, N.W., WASHINGTON, D.C. 20037 ($4.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003163

ERIC ACCESSION NUMBER: ED156526

PUBLICATION DATE: 76

TITLE: CHLORINATION OF WASTEWATER, MANUAL OF PRACTICE NO. 4.

INSTITUTION CODE: BBB15582

DESCRIPTOR: *CHEMISTRY; GUIDES; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MANUALS; POLLUTION; *POST SECONDARY EDUCATION; SCIENCE EDUCATION; *TECHNICAL EDUCATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES; CHLORINATION; WATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 111P.

ISSUE: RIENOV78

ABSTRACT: THIS MANUAL REVIEWS CHLORINATION PRACTICES IN THE TREATMENT AND DISPOSAL OF WASTES FROM THE EARLIEST KNOWN APPLICATIONS. THE APPLICATION OF CHLORINATION FOR VARIOUS PURPOSES IS DESCRIBED BUT NO ATTEMPT HAS BEEN MADE TO COMPARE CHLORINATION WITH OTHER METHODS. INCLUDED ARE CHAPTERS ON THE DEVELOPMENT AND PRACTICE OF WASTEWATER CHLORINATION, DISINFECTION PROCESS CHEMISTRY AND CONTROL, DISINFECTION WITH CHLORINE, OTHER USES OF CHLORINE FOR DOMESTIC AND INDUSTRIAL WASTEWATER, CHLORINATION SAFETY, AND DISINFECTION OF WASTEWATER WITH SODIUM HYPOCHLORITE. DETAILED PROCEDURES OR THE SOLUTION OF SPECIFIC PROBLEMS ARE NOT GIVEN HERE, NOR ARE DESIGN OF OPERATING CRITERIA OR TECHNIQUES. (BB)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., N.W., WASHINGTON, D.C. 20037 ($4.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003164

ERIC ACCESSION NUMBER: ED156527

PUBLICATION DATE: APR 78

TITLE: EFFLUENT MONITORING PROCEDURES: BASIC LABORATORY SKILLS. STAFF GUIDE FOR CONDUCTING THE COURSE.

PERSONAL AUTHOR: ENGEL, WILLIAM T.; AND OTHERS

INSTITUTION CODE: BBB13327

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *LABORATORY TECHNIQUES; MICROBIOLOGY; POLLUTION; *POST SECONDARY EDUCATION; *TEACHING GUIDES; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$12.71 PLUS POSTAGE.

DESCRIPTIVE NOTE: 243P.; FOR RELATED DOCUMENTS, SEE ED 147 189-195; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIENOV78

ABSTRACT: THIS MANUAL IS DESIGNED FOR USE BY INSTRUCTORS WHO WILL HAVE TO TEACH OTHERS THE BASIC LABORATORY SKILLS NEEDED TO PERFORM NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) ANALYSES. IT INCLUDES TOPICS RELATED TO THE PRESENTATION OF TRAINING COURSES IN WHICH THE NPDES ANALYSES WOULD BE TAUGHT. THESE TOPICS INCLUDE: EXAMPLES OF COURSE ANNOUNCEMENTS AND COURSE AGENDAS; COURSE CERTIFICATION; CONSIDERATION OF TRAINING STAFF AND FACILITIES; AND COURSE RECORDS AND REGISTRATION PROCEDURES. ALSO INCLUDED ARE LESSON PLANS WITH INSTRUCTIONS FOR EACH OF THE BASIC LABORATORY SKILLS PRESENTED IN THE ASSOCIATED STUDENT REFERENCE MANUAL. (CS)

REPORT NUMBER: EPA-430-1-78-005

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003165

PUBLICATION DATE: 77

TITLE: WASTEWATER RENOVATION AND REUSE, VOL. 3.

PERSONAL AUTHOR: D'ITRI, FRANK M., ED.

DESCRIPTOR: BIOLOGY; DEVELOPED NATIONS; DEVELOPING NATIONS; ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; LAND USE; *NATURAL RESOURCES; POLLUTION; PUBLIC HEALTH; *RECYCLING; TECHNOLOGY; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 705P.

ABSTRACT: THIS VOLUME REVIEWS CONTEMPORARY RESEARCH AND TECHNOLOGY RELATED TO THE PROBLEM OF WASTEWATER RENOVATION AND REUSE. A HISTORICAL FRAMEWORK FOR THE PROBLEM IS PROVIDED, AS WELL AS ENERGY COST ASSESSMENTS FOR VARIOUS TECHNIQUES, VIEWS ON PUBLIC ACCEPTANCE, AND PROSPECTS FOR FUNDING. FUTURE RESEARCH, BENEFITS, DRAWBACKS AND COSTS FOR EACH TECHNIQUE ARE CONSIDERED FROM THE PERSPECTIVES OF BOTH DEVELOPED AND DEVELOPING COUNTRIES. UNINTENTIONAL WASTEWATER RECYCLING AND ITS EFFECTS ARE ALSO SURVEYED. (CS)

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 10016 ($39.50)

IRIS ACCESSION NUMBER: EW003166

PUBLICATION DATE: 77

TITLE: WATER AND WASTEWATER TREATMENT, VOL. 4.

PERSONAL AUTHOR: HUMENICK, MICHAEL J., JR.

DESCRIPTOR: *CALCULATION; *CHEMICAL REACTIONS; *DESIGN; ENVIRONMENTAL INFLUENCES; ENGINEERING; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *WASTEWATER TREATMENT; WATER TREATMENT

DESCRIPTIVE NOTE: 236P.

ABSTRACT: INCLUDED IN THIS VOLUME ARE CALCULATION PROCEDURES WHICH CAN BE UTILIZED IN THE DESIGN OF SUCH PROCESSES AS EQUALIZATION, COAGULATION AND FLOCCULATION, CHEMICAL PRECIPITATION, AND GRAVITY SEDIMENTATION. EXAMPLES OF PROBLEMS RELATED TO FILTRATION, ACTIVATED CARBON ABSORPTION, ION EXCHANGE, CHLORINATION, DISINFECTION, AND AERATION ARE ALSO COVERED. INFORMATION OF PHYSICAL AND CHEMICAL PROPERTIES, CONVERSION FACTORS, AND COMPUTER PROGRAMS ARE DETAILED IN THE APPENDIXES. (CS)

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 10016 ($19.95)

IRIS ACCESSION NUMBER: EW003167

PUBLICATION DATE: 77

TITLE: BIOFOULING CONTROL PROCEDURES, VOL. 5.

PERSONAL AUTHOR: JENSEN, LORIN D., ED.

DESCRIPTOR: BIOLOGY; ENGINEERING; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *EQUIPMENT UTILIZATION; *NATURAL RESOURCES; POLLUTION; *UTILITIES; *WATER RESOURCES; WATER POLLUTION CONTROL; *BIFOULING; *OPERATIONS; *POWER PLANTS

DESCRIPTIVE NOTE: 113P.

ABSTRACT: THIS VOLUME EXAMINES METHODS USED TO MINIMIZE BIOFOULING OF INTAKE STRUCTURES AND CONDENSOR COOLING SYSTEMS AT POWER PLANTS AND THE IMPACT OF THESE METHODS ON THE ENVIRONMENT. THE PAPERS INCLUDED IN THIS TEXT DESCRIBE THE USE OF ARTIFICIAL SUBSTRATES AND TECHNIQUES FOR MONITORING THE BIOLOGY OF FOULING ORGANISMS. A REVIEW OF CURRENT APPLICATIONS OF TREATMENT METHODOLOGIES AND DESCRIPTIONS OF ENVIRONMENTAL CONSEQUENCES OF CHEMICAL, MECHANICAL AND THERMAL CONTROL PROCEDURES FOLLOWS. THE VOLUME CONCLUDES WITH A REVIEW OF THE ECOLOGICAL EFFECTS OF CHLORINATION ON AQUATIC ORGANISMS. (CS)

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 10016 ($19.50)

IRIS ACCESSION NUMBER: EW003168

PUBLICATION DATE: 77

TITLE: FATE OF POLLUTANTS IN THE AIR AND WATER ENVIRONMENTS.

PERSONAL AUTHOR: SUFFET, I. H.

DESCRIPTOR: *AIR POLLUTION CONTROL; CHEMICAL PROPERTIES; CHLORINATED HYDROCARBONS; *DEGRADATION; *ENVIRONMENT; HYDROCARBONS; METABOLITES; METALS; *ORGANIC COMPOUNDS; *POLLUTANTS; *PESTICIDES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 484P.

ABSTRACT: THE FATE OF POLLUTANTS IS DESCRIBED IN THIS VOLUME FROM BOTH LOCAL AND GLOBAL DISTRIBUTION PERSPECTIVES. THE FATE OF PESTICIDES IS DISCUSSED GLOBALLY, EXCHANGING BETWEEN ENVIRONMENTS, AND AS A FOCUS FOR BOTH BIOLOGICAL AND CHEMICAL FATE. THE FATE OF OTHER CLASSES OF ORGANIC COMPOUNDS DISCUSSED INCLUDE PHTHALATES, HYDROCARBONS OF OIL ORIGIN AND THE POLYNUCLEAR TYPE, HEAVY METAL COMPLEXES, CHLORINATED ORGANICS, AND HUMIC ACIDS. OTHER CHAPTERS TREAT THE PERSISTENT ENVIRONMENTAL CONCERNS OF NUTRIENTS, HEAVY METALS, ACID GASES, AND RADIOACTIVE MATERIALS. ALSO INCLUDED ARE EDITED PANEL DISCUSSIONS AND A SECTION COMPARING THE USE OF LARGE OR COMPLEX MODELS WITH SIMPLER MODELS IN THE AIR AND WATER ENVIRONMENTS. (BB)

AVAILABILITY: JOHN WILEY AND SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873 ($24.95)

IRIS ACCESSION NUMBER: EW003169

PUBLICATION DATE: JUN 73

TITLE: LAGOON PERFORMANCE AND THE STATE OF LAGOON TECHNOLOGY.

DESCRIPTOR: CHEMICAL REACTIONS; ENVIRONMENTAL INFLUENCES; *LAND USE; *MANAGEMENT SYSTEMS; MUNICIPALITIES; *POLLUTION; PUBLIC HEALTH; *RESEARCH; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *LAGOONS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 214P.

ABSTRACT: THIS DOCUMENT REPORTS ON THE COLLECTION AND EVALUATION OF DATA FROM MUNICIPAL LAGOON FACILITIES. THE DATA WERE ALSO EVALUATED FOR THE ADEQUACY OF SUCH FACILITIES TO PRODUCE EFFLUENT TO MEET STATE WATER QUALITY CRITERIA. FACTORS LIMITING LAGOON PERFORMANCE ARE DISCUSSED, INCLUDING ORGANIC AND HYDRAULIC OVERLOAD, ODOR AND AESTHETIC FAILURES, MIXING, AND DATA GATHERING AND REPORTING. A SERIES OF RECOMMENDATIONS FOR UPGRADING LAGOON PERFORMANCE IS INCLUDED. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.95)

INSTITUTION NAME: RYCKMAN, EDGERLEY, TOMLINSON AND ASSOC., INC.

IRIS ACCESSION NUMBER: EW003170

PUBLICATION DATE: 77

TITLE: WATER SUPPLY ENGINEERING DESIGN.

PERSONAL AUTHOR: AL LAYLA, M. A.; AND OTHERS

DESCRIPTOR: *DEVELOPING NATIONS; *ENGINEERING TECHNOLOGY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POST SECONDARY EDUCATION; SANITATION; UTILITIES; *WATER QUALITY; *WATER RESOURCES; *WATER COLLECTION; *WATER DISTRIBUTION; WATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: 284P.

ABSTRACT: THIS BOOK PROVIDES INFORMATION ON WATER SUPPLY ENGINEERING. IT IS AIMED AT THE PROBLEMS OF COLLECTIO TREATMENT, AND DISTRIBUTION OF WATER ESPECIALLY AS I RELATES TO USE IN DEVELOPING NATIONS. THE CONTENTS INCLUDE (1) DEMAND FOR, SOURCES OF, AND COLLECTION OF WATER; (2 SEDIMENTATION, COAGULATION, DISINFECTION, AND SOFTENING; AN (3) DESIGN OF PIPELINES AND DISTRIBUTION SYSTEMS. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425 ANN ARBOR, MI 48106 ($20.00)

IRIS ACCESSION NUMBER: EW003171

PUBLICATION DATE: 70

TITLE: DEVELOPMENTS IN WATER QUALITY RESEARCH.

PERSONAL AUTHOR: SHUVAL, H. I., ED.

DESCRIPTOR: *CONFERENCES; ENVIRONMENTAL INFLUENCES *MEASUREMENT TECHNIQUES; NATURAL RESOURCES; *OCEANOLOGY *POLLUTION; PUBLIC HEALTH; *RESEARCH; *WASTE DISPOSAL *WATER RESOURCES; *WATER POLLUTION CONTROL; *ISRAEL *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 312P.

ABSTRACT: THIS WORK COMPRISES 20 PAPERS PRESENTED AT TH JERUSALEM CONFERENCE ON WATER QUALITY AND POLLUTION RESEARC IN 1969. THE BOOK IS DIVIDED INTO THREE MAIN AREAS: (1 WATER QUALITY MANAGEMENT; (2) WASTEWATER TREATMENT AN UTILIZATION; AND (3) MARINE POLLUTION. MOST OF THE REPORT DEAL WITH RESEARCH EFFORTS IN ISRAEL BUT THE SUBJECTS DEAL WITH AND THE RESEARCH FINDINGS PRESENTED HAVE APPLICATIO INTERNATIONALLY. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425 ANN ARBOR, MI 48106 ($13.13)

IRIS ACCESSION NUMBER: EW003172

PUBLICATION DATE: 77

TITLE: HOW TO REMOVE POLLUTANTS AND TOXIC MATERIALS FRO AIR AND WATER.

PERSONAL AUTHOR: SITTIG, MARSHALL

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMISTRY ENVIRONMENTAL INFLUENCES; *INDUSTRIAL TECHNOLOGY MANUFACTURING; *POLLUTION; PUBLIC HEALTH; *RESEARCH; *WAST DISPOSAL; *WATER POLLUTION CONTROL; *PATENTS; *TOXI SUBSTANCES

DESCRIPTIVE NOTE: 621P.

ABSTRACT: THIS BOOK PROVIDES A ONE-VOLUME REFERENCE FOR TH HANDLING OF TOXIC MATERIALS AND OTHER POLLUTANTS EMERGIN INTO THE AIR AND WATER FROM INDUSTRIAL PROCESSES. TH INFORMATION IS BASED PRIMARILY ON MATERIAL FROM U.S. PATENT DEALING WITH PRACTICAL ENVIRONMENTAL CONTROL SYSTEMS. SOM 500 PATENTS IN THE 1973-1976 PERIOD ARE SURVEYED. SUBJEC ENTRIES ARE ARRANGED IN ALPHABETICAL SEQUENCE AND INCLUD ACID MINE WATERS, ASBESTOS, BREWERY EFFLUENTS, CHLORINATE HYDROCARBONS, DAIRY EFFLUENTS, FEEDLOT WASTES, GLAS PRODUCTION EFFLUENTS, LAUNDRY, WASTES, NOISE, PACKING HOUS EFFLUENTS, PICKLE LIQUORS, TEXTILE WASTES, AND ZINC SMELTE EFFLUENTS. (CS)

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, PARK RIDGE NJ 07656 ($48.00)

IRIS ACCESSION NUMBER: EW003173

PUBLICATION DATE: 78

TITLE: HANDBOOK OF ADVANCED WASTEWATER TREATMENT, 2ND ED.

PERSONAL AUTHOR: CULP, RUSSELL L.; AND OTHERS

DESCRIPTOR: CARBON DIOXIDE; *CHEMISTRY; CHLORINATION DEMINERALIZATION; *DISINFECTION; *ECONOMICS; FILTRATION FLOCCULATION; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS *LAND APPLICATION; *OPERATIONS (WASTEWATER); POST SECONDAR EDUCATION; *SLUDGE; WASTEWATER SLUDGE; *WASTEWATE TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 632P.

ABSTRACT: INCLUDED IN THIS BOOK ARE CHAPTERS ON THE PURPOS AND BENEFITS OF ADVANCED WASTEWATER TREATMENT, CHEMICA CLARIFICATION, RECARBONATION, FILTRATION, ACTIVATED CARBO ADSORPTION AND REGENERATION, DISINFECTION, NITROGEN REMOVAL CHEMICAL SLUDGE HANDLING, DEMINERALIZATION, LAND TREATMEN OF WASTEWATERS, ESTIMATING THE COSTS OF WASTEWATER TREATMEN FACILITIES, AND SELECTING AND COMBINING UNIT PROCESSES. SOM OF THE TOPICS INCLUDED ARE: (1) COAGULATION, FLOCCULATION AND SEDIMENTATION; (2) SINGLE STAGE VS, TWO STAG CARBONATION; (3) DESIGN OF FILTER SYSTEMS; (4) EVALUATION O ACTIVATED CARBON; (5) CHLORINATION; (6) BIOLOGICAL NITROGE REMOVAL; (7) ELECTRODIALYSIS; AND (8) ION EXCHANGE. THI BOOK CONTAINS DESIGN EXAMPLES AND CASE HISTORIES O

OPERATING PLANTS, IT IS USEFUL AS A REFERENCE BOOK, OR A TEXT IN GRADUATE OR UNDERGRADUATE ENVIRONMENTAL ENGINEERING COURSES. (BB)

AVAILABILITY: VAN NOSTRAND/REINHOLD CO., 300 PIKE ST., CINCINNATI, OH 45202 ($29.50)

IRIS ACCESSION NUMBER: EW003174

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL CHEMISTRY: AIR AND WATER POLLUTION. SECOND EDITION.

PERSONAL AUTHOR: STOKER, H. STEPHEN; SEAGER, SPENCER L.

DESCRIPTOR: BIOCHEMICAL OXYGEN DEMAND; BIOLOGY; CARBON DIOXIDE; *CHEMICAL PROPERTIES; CHLORINATED HYDROCARBONS; DETERGENTS; *ENVIRONMENT; HEAVY METALS; HYDROGEN SULFIDE; *INSTRUCTIONAL MATERIALS; NITROGEN; OIL; *ORGANIC COMPOUNDS; OXYGEN; *POLLUTION; *POST SECONDARY EDUCATION; *AIR POLLUTION CONTROL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 231P.

ABSTRACT: THE FIRST PART OF THIS TEXTBOOK IS ON AIR POLLUTION. IT CONTAINS CHAPTERS ON GENERAL CONSIDERATIONS, CARBON MONOXIDE, NITROGEN OXIDES, HYDROCARBONS AND PHOTOCHEMICAL OXIDANTS, SULFUR OXIDES, PARTICULATES, AND TEMPERATURE INVERSIONS AND THE GREENHOUSE EFFECT. ALSO, A DISCUSSION OF AIR POLLUTANT CONCENTRATION EXPRESSIONS AND A TABLE OF NATIONAL AIR QUALITY STANDARDS ARE GIVEN. THE SECOND PART OF THE BOOK IS ON WATER POLLUTION AND COVERS DETERGENTS, SYNTHETIC ORGANIC PESTICIDES, OIL, TOXIC METALS, AND WASTEWATER TREATMENT. SOME SAMPLE TOPICS INCLUDE EFFECTS OF PHOSPHATE REMOVAL ON THE ENVIRONMENT, DEGRADATION OF CHLORINATED HYDROCARBONS IN SOIL, THE BIOLOGICAL AND PHYSICAL EFFECTS OF OIL SPILLS, AND THE INDUSTRIAL USE OF MERCURY. ALTHOUGH POLLUTION IS COVERED IN THIS BOOK FROM A CHEMICAL STANDPOINT ONLY A BASIC KNOWLEDGE OF CHEMISTRY IS REQUIRED FOR UNDERSTANDING OF THE MATERIAL. (BB)

AVAILABILITY: SCOTT, FORESMAN AND CO., 1900 E. LAKE AVE., GLENVIEW, IL 60025 ($5.00)

IRIS ACCESSION NUMBER: EW003175

ERIC ACCESSION NUMBER: ED156469

PUBLICATION DATE: MAY 74

TITLE: OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS, PART I - OBSERVATIONS, PART II - CONTROL TESTS.

PERSONAL AUTHOR: WEST, ALFRED W.

INSTITUTION CODE: BBB13327

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; LABORATORY TRAINING; MANAGEMENT; MEASUREMENT TECHNIQUES; POLLUTION; *POST SECONDARY EDUCATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; ACTIVATED SLUDGE; *WASTEWATER TREATMENT; WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 31P.; FOR RELATED DOCUMENTS, SEE SE 024 422-424; CONTAINS OCCASIONAL LIGHT TYPE; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIENOV78

ABSTRACT: THIS IS THE FIRST IN A SERIES OF DOCUMENTS DEVELOPED BY THE NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER DESCRIBING OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS USED IN WASTEWATER TREATMENT. PART 1 OF THIS DOCUMENT DEALS WITH PHYSICAL OBSERVATIONS WHICH SHOULD BE PERFORMED DURING EACH ROUTINE CONTROL TEST. PART II DISCUSSES THE CONTROL TESTS THAT ARE USED TO DIRECTLY IDENTIFY PROCESS PERFORMANCE AND TO DICTATE PROCESS CONTROL ADJUSTMENTS. INCLUDED ARE CENTRIFUGE TESTS, EFFLUENT TURBIDITY TESTS AND DISSOLVED OXYGEN TESTS. (CS)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003176

ERIC ACCESSION NUMBER: ED156470

PUBLICATION DATE: DEC 73

TITLE: OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS, PART III-A: CALCULATION PROCEDURES.

PERSONAL AUTHOR: WEST, ALFRED W.

INSTITUTION CODE: BBB13327

DESCRIPTOR: *CALCULATION; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; LABORATORY TRAINING; MANAGEMENT; MEASUREMENT TECHNIQUES; POLLUTION; *POST SECONDARY EDUCATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ACTIVATED SLUDGE; *WASTEWATER TREATMENT; WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 56P.; FOR RELATED DOCUMENTS, SEE SE 024 421-424

ISSUE: RIENOV78

ABSTRACT: THIS IS THE SECOND IN A SERIES OF DOCUMENTS DEVELOPED BY THE NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER DESCRIBING OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS USED IN WASTEWATER TREATMENT. THIS DOCUMENT DEALS EXCLUSIVELY WITH THE CALCULATION PROCEDURES, INCLUDING SIMPLIFIED MIXING FORMULAS, AERATION TANK CHARACTERISTICS, ORGANIC LOADING AND PURIFICATION PRESSURES, CLARIFIER SLUDGE FLOW DEMAND, AND MIXING FORMULA DEVELOPMENT. (CS)

REPORT NUMBER: EPA-330/9-74-001C

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003177

ERIC ACCESSION NUMBER: ED156471

PUBLICATION DATE: FEB 75

TITLE: OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS, PART III-B: CALCULATION PROCEDURES FOR STEP-FEED PROCESS RESPONSES AND ADDENDUM NO. 1.

PERSONAL AUTHOR: WEST, ALFRED W.

INSTITUTION CODE: BBB13327

DESCRIPTOR: *CALCULATION; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; LABORATORY TECHNIQUES; MANAGEMENT; MEASUREMENT TECHNIQUES; POLLUTION; *POST SECONDARY EDUCATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ACTIVATED SLUDGE; *WASTEWATER TREATMENT; WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 44P.; FOR RELATED DOCUMENTS, SEE SE 024 421-424

ISSUE: RIENOV78

ABSTRACT: THIS IS THE THIRD IN A SERIES OF DOCUMENTS DEVELOPED BY THE NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER DESCRIBING OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS USED IN WASTEWATER TREATMENT. THIS DOCUMENT DEALS WITH THE CALCULATION PROCEDURES ASSOCIATED WITH A STEP-FEED PROCESS. ILLUSTRATIONS AND EXAMPLES ARE INCLUDED TO EMPHASIZE HOW THE ACTIVATED SLUDGE PROCESS REACTS TO CHANGES IN WASTEWATER FEED-POINT LOCATIONS. THE SUMMARY ILLUSTRATES THE TYPES OF CHANGES THAT OCCUR WHEN A PLUG-FLOW SYSTEM IS SWITCHED TO VARIOUS STEP-FEED COMBINATIONS. (CS)

REPORT NUMBER: EPA-330/9-74-001E

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003178

ERIC ACCESSION NUMBER: ED156472

PUBLICATION DATE: MAR 74

TITLE: OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS: APPENDIX.

PERSONAL AUTHOR: WEST, ALFRED W.

INSTITUTION CODE: BBB13327

DESCRIPTOR: *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; LABORATORY TRAINING; MANAGEMENT; *MEASUREMENT TECHNIQUES; POLLUTION; *POST SECONDARY EDUCATION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; ACTIVATED SLUDGE; *WASTEWATER TREATMENT; WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 37P.; FOR RELATED DOCUMENTS, SEE SE 024 421-423; GRAPHS AND CHARTS MAY NOT REPRODUCE WELL

ISSUE: RIENOV78

ABSTRACT: THIS DOCUMENT IS THE APPENDIX FOR A SERIES OF DOCUMENTS DEVELOPED BY THE NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER DESCRIBING OPERATIONAL CONTROL PROCEDURES FOR THE ACTIVATED SLUDGE PROCESS USED IN WASTEWATER TREATMENT. CATEGORIES DISCUSSED INCLUDE: CONTROL TEST DATA, TREND CHARTS, MOVING AVERAGES, SEMI-LOGARITHMIC PLOTS, PROBABILITY PLOT EXAMPLES, TESTING EQUIPMENT AND SYMBOLS AND TERMINOLOGY. (CS)

REPORT NUMBER: EPA-330/9-74-001D

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003179

PUBLICATION DATE: 76

TITLE: WATER DISTRIBUTION OPERATOR TRAINING HANDBOOK.

DESCRIPTOR: *ENVIRONMENTAL TECHNICIANS; EQUIPMENT; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MATHEMATICS; PLUMBING; *POST SECONDARY EDUCATION; PUBLIC HEALTH; SAFETY; UTILITIES; *WATER RESOURCES; *WATER DISTRIBUTION; *WATER TREATMENT

DESCRIPTIVE NOTE: 232P. NO. 20103

ABSTRACT: THIS HANDBOOK PROVIDES AN INTRODUCTION TO THE OPERATION OF WATER DISTRIBUTION SYSTEMS AND THE ROLE OF THE SYSTEM OPERATOR. THE TEXT DISCUSSES ALL PHASES OF THE INDUSTRY INCLUDING WATER PRODUCTION, STORAGE AND DISTRIBUTION; EQUIPMENT SUCH AS PIPES, PUMPS, METERS AND MOTORS; BASIC HYDRAULICS; SAFETY; CHEMICAL HANDLING; AND PUBLIC RELATIONS. A GLOSSARY OF TERMS IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 W. QUINCY AVE., DENVER, CO 80235 ($12.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW003182

TITLE: BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL.

DESCRIPTOR: *ENGINEERING; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *PLUMBING; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; *WATER POLLUTION CONTROL; WATER RESOURCES; *BACKFLOW; *WATER DISTRIBUTION

ABSTRACT: THIS MANUAL PROVIDES WATER SURVEYORS AND OTHER PERSONS RESPONSIBLE FOR PUBLIC POTABLE WATER SUPPLY SYSTEMS WITH A GUIDE TO PROCEDURES FOR: (1) PROTECTING THESE SUPPLIES AGAINST BACKFLOW OF OBJECTIONABLE FLUIDS; (2) PROTECTING THESE SUPPLIES AT THE CONSUMER'S SERVICE CONNECTION; AND (3) PROVIDING INDUSTRIAL CONSUMERS WITH SEPARATE SYSTEMS FOR INDUSTRIAL WATER AND POTABLE WATER. (CS)

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 W. QUINCY AVE., DENVER, CO 80235 ($5.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW003186

PUBLICATION DATE: 72

TITLE: NORTH CAROLINA WATER WORKS OPERATORS ASSOCIATION, B MANUAL. SIXTH REVISION.

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL TECHNICIANS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *LABORATORY METHODS; MATHEMATICS; *POST SECONDARY EDUCATION; *WATER QUALITY; WATER POLLUTION CONTROL; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 105P.

ABSTRACT: THIS MANUAL PROVIDES BASIC INFORMATION FOR WATER TREATMENT PLANT OPERATORS. EACH OF THE THIRTEEN SECTIONS RELATES TO A SPECIFIC OPERATION SUCH AS BACTERIOLOGY, CHLORINATION, COAGULATION, SEDIMENTATION, FILTRATION, AND TASTE AND ODOR CONTROL. FOR EACH, BACKGROUND INFORMATION IS PROVIDED AND WHERE APPLICABLE TESTING PROCEDURES, EQUIPMENT REQUIREMENTS, AND PRACTICE PROBLEMS ARE DISCUSSED. (CS)

AVAILABILITY: JAMES MOOREFIELD, NC WATER WORKS OPERATORS ASSOCIATION, 2601 DAYE DR., GREENSBORO, NC 27406 ($10.00)

INSTITUTION NAME: NORTH CAROLINA WATER WORKS OPERATORS ASSOC.

IRIS ACCESSION NUMBER: EW003187

PUBLICATION DATE: 71

TITLE: NORTH CAROLINA WATER WORKS OPERATORS ASSOCIATION. C MANUAL. SIXTH REVISION.

DESCRIPTOR: CHEMISTRY; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *LABORATORY METHODS; *MATHEMATICS; *POST SECONDARY EDUCATION; *WATER QUALITY; WATER POLLUTION CONTROL; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 86P.

ABSTRACT: THIS MANUAL PROVIDES BASIC INFORMATION FOR WATER TREATMENT PLANT OPERATORS. EACH OF THE FOURTEEN SECTIONS RELATES TO A SPECIFIC OPERATION SUCH AS BACTERIA CONTROL, CHLORINATION, COAGULATION, SEDIMENTATION, FILTRATION, AND TASTE AND ODOR CONTROL. FOR EACH, BACKGROUND INFORMATION IS PROVIDED AND WHERE APPLICABLE TESTING PROCEDURES AND EQUIPMENT REQUIREMENTS ARE DISCUSSED. BASIC CALCULATIONS ARE EMPHASIZED THROUGH EXAMPLE AND PRACTICE PROBLEMS. (CS)

AVAILABILITY: JAMES MOOREFIELD, NC WATER WORKS OPERATORS ASSOCIATION, 2601 DAYE DR., GREENSBORO, NC 27406 ($10.00)

INSTITUTION NAME: NORTH CAROLINA WATER WORKS OPERATORS ASSOC.

IRIS ACCESSION NUMBER: EW003188

PUBLICATION DATE: 72

TITLE: NORTH CAROLINA WATER WORKS OPERATORS ASSOCIATION: A MANUAL. SIXTH REVISION.

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL TECHNICIANS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *POST SECONDARY EDUCATION; POLLUTION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; WATER QUALITY; *NORTH CAROLINA; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 86P.

ABSTRACT: THIS DOCUMENT PROVIDES BASIC INFORMATION FOR THE ENVIRONMENTAL TECHNICIAN RESPONSIBLE FOR OPERATING WATER AND WASTEWATER TREATMENT FACILITIES. TOPIC AREAS DISCUSSED INCLUDE BACTERIOLOGY, CHLORINATION, CORROSION, DESIGN, HYDRAULICS, PUMPS, AND RADIATION. INTRODUCTORY MATERIAL IS PROVIDED FOR EACH SECTION AND EQUIPMENT UTILIZATION, LABORATORY PROCEDURES, AND PRACTICE PROBLEMS ARE ALSO GIVEN WHERE APPROPRIATE. (CS)

AVAILABILITY: JAMES MOOREFILED, N.C. WATER WORKS OPERATORS ASSOCIATION, 2601 DAYE DR., GREENSBORO, NC 27406 ($10.00)

INSTITUTION NAME: NORTH CAROLINA WATER WORKS OPERATORS ASSOC.

IRIS ACCESSION NUMBER: EW003189

ERIC ACCESSION NUMBER: ED157718

PUBLICATION DATE: JAN 78

TITLE: WATER REUSE HIGHLIGHTS: A SUMMARY VOLUME OF WASTEWATER RECLAMATION AND REUSE INFORMATION.

INSTITUTION CODE: BBB15780

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; LEGISLATION; POLLUTION; PUBLIC HEALTH; *RECYCLING; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT; *WATER QUALITY; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 126P.; CONTAINS SMALL, LIGHT AND BROKEN TYPE IN TABLES AND MAPS

ISSUE: RIEDEC78

ABSTRACT: THIS DOCUMENT REPORTS THE EFFORTS OF THE AWWA RESEARCH FOUNDATION TO GATHER, PREPARE, AND DISTRIBUTE CURRENT TECHNICAL INFORMATION IN THE WASTEWATER RECLAMATION AND REUSE FIELD. THE INFORMATION REPORTED HAS BEEN ABSTRACTED FROM OTHER FOUNDATION PUBLICATIONS AND ONLY ATTEMPTS HERE TO HIGHLIGHT THE FIELD. CATEGORIES DISCUSSED INCLUDE RESEARCH, HEALTH EFFECTS, LEGISLATIVE ACTIVITIES, REGULATIONS AND WATER REUSE PLANS AND DEMONSTRATIONS. (CS)

AVAILABILITY: AWWA RESEARCH FOUNDATION, 6666 W. QUINC AVE., DENVER CO 80235 (LIMITED SUPPLY FREE)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOCIATION, DENVER, COLO. RESEARCH FOUNDATION.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003190

PUBLICATION DATE: APR 78

TITLE: THIRD ANNUAL CONFERENCE ON TREATMENT AND DISPOSAL O INDUSTRIAL WASTEWATERS AND RESIDUES.

DESCRIPTOR: ADMINSTRATIVE PLANNING; *ENVIRONMENTA INFLUENCES; *INDUSTRY; LAND USE; LEGISLATION; POLLUTION; *RECYCLING; RESEARCH; *WASTE DISPOSAL; *WATER POLLUTIO CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 350P.

ABSTRACT: THIS VOLUME CONTAINS PAPERS PRESENTED AT TH CONFERENCE ON TREATMENT AND DISPOSAL OF INDUSTRIA WASTEWATERS AND RESIDUES HELD IN 1978. TOPIC AREAS DISCUSSE INCLUDE TREATMENT OF INDUSTRIAL WASTEWATERS, PETROLEUM AN PETROCHEMICAL WASTE, POWER PLANT WASTES, TREATMENT AN DISPOSAL OF TOXIC WASTES, ORGANIC AND INORGANIC WASTES, HAN DISPOSAL OF RESIDUES, AREAWIDE PLANNING, LEGISLATION, RULES AND REGULATIONS. MOST PAPERS INCLUDE A BIBLIOGRAPHY FO REFERENCE. (CS)

AVAILABILITY: INFORMATION TRANSFER INC., 1160 ROCKVILL PIKE, SUITE 202, ROCKVILLE, MD 20852 ($25.00)

INSTITUTION NAME: INFORMATION TRANSFER INC.

IRIS ACCESSION NUMBER: EW003191

PUBLICATION DATE: AUG 77

TITLE: 1977 NATIONAL CONFERENCE ON COMPOSTING OF MUNICIPA RESIDUES AND SLUDGES.

DESCRIPTOR: BIOCHEMISTRY; ENVIRONMENTAL INFLUENCES; *LAN USE; POLLUTION; PUBLC HEALTH; *RECYCLING; *SANITATION TECHNOLOGY; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *HEAV METALS; *SLUDGE; TOXICITY; *WASTEWATER TREATMENT *COMPOSTING

DESCRIPTIVE NOTE: 166P.

ABSTRACT: THIS DOCUMENT ADDRESSES THE THREE MAJOR PROBLE AREAS OF SLUDGE MANAGEMENT AS DISCUSSED AT THE NATIONA CONFERENCE ON COMPOSTING OF MUNICIPAL RESIDUES AND SLUDGES 1977. THE PAPERS PRESENTED DEAL WITH THE EFFECTIVE USE O TECHNOLOGY, THE MARKET RELIABILITY OF THE PRODUCT, AND TH PUBLIC ACCEPTANCE OF THE COMPOSTING PROCESS. SUB-AREAS O CONCERN ADDRESS THE ROLE OF COMPOSTING, BIOCHEMISTRY EFFECTS OF WASTEWATER, NEW EQUIPMENT AND PROCESSES, PLAN ACCUMULATION, SOURCE CONTROL, METALS AND TOXICS, HEALT EFFECTS, UTILIZATION, AND COST COMPARISONS. (CS)

AVAILABILITY: INFORMATION TRANSFER INC., 1160 ROCKVILL PIKE, STE. 202, ROCKVILLE, MD. 20852 ($22.50)

INSTITUTION NAME: INFORMATION TRANSFER INC.

IRIS ACCESSION NUMBER: EW003192

PUBLICATION DATE: DEC 76

TITLE: THIRD NATIONAL CONFERENCE ON SLUDGE MANAGEMEN DISPOSAL AND UTILIZATION.

DESCRIPTOR: *COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES *LAND USE; POLLUTION; PUBLIC HEALTH; RECYCLING; *TECHNOLOGY *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *LAN APPLICATION; *SLUDGE

DESCRIPTIVE NOTE: 210P. PROCEEDINGS OF THE THIRD NATIONA CONFERENCE ON SLUDGE MANAGEMENT DISPOSAL AND UTILIZATION DECEMBER 14-16 1976, MIAMI BEACH, FLORIDA.

ABSTRACT: THESE PROCEEDINGS OF THE THIRD NATIONA CONFERENCE ON SLUDGE MANAGEMENT, DISPOSAL, AND UTILIZATIO DISCUSS THE RESPONSIBILITIES AND CHALLENGES ASSOCIATED WIT WASTE DISPOSAL. THE PAPERS ADDRESS LAND APPLICATION, COS EFFECTIVENESS, HEALTH AND ENVIRONMENTAL CONSIDERATIONS, NE TECHNOLOGY AND FUTURE RESEARCH POSSIBILITIES. EAC PRESENTATION CONTAINS A SUMMARY AND LIST OF TECHNOLOGY AN FUTURE RESEARCH POSSIBILITIES. EACH PRESENTATION CONTAINS SUMMARY AND LIST OF REFERENCES. (CS)

AVAILABILITY: INFORMATION TRANSFER INC., 1160 ROCKVILL PIKE, STE. 202, ROCKVILLE, MD 20852 ($25.00)

INSTITUTION NAME: INFORMATION TRANSFER INC.

IRIS ACCESSION NUMBER: EW003193

PUBLICATION DATE: NOV 77

TITLE: BACTERIAL INDICATORS: HEALTH HAZARDS ASSOCIATED WITH WATER.

PERSONAL AUTHOR: HOADLEY, A. W., ED.; DUTKA, B. J., ED.

DESCRIPTOR: BIOLOGY; *ENVIRONMENTAL INFLUENCES; INTERNATIONAL STUDIES; *MICROBIOLOGY; POLLUTION; *PUBLIC HEALTH; SANITATION; WASTE DISPOSAL; *WATER QUALITY; *WATER POLLUTION CONTROL; *MONITORING; *STANDARDS; *PATHOGENS

DESCRIPTIVE NOTE: 356P.

ABSTRACT: THIS DOCUMENT PRESENTS PAPERS FROM AN INTERNATIONAL SYMPOSIUM ON BACTERIAL INDICATORS OF POTENTIAL HEALTH HAZARDS ASSOCIATED WITH WATER. IT PROVIDES INFORMATION TO ASSIST IN ESTABLISHING WATER QUALITY OBJECTIVES AND STANDARDS, SELECTING BACTERIAL INDICATORS OF POTENTIAL HEALTH HAZARDS, AND INTERPRETING WATER QUALITY DATA. NORTH AMERICAN, EUROPEAN, AND SOUTH AFRICAN VIEWS CONCERNING THE SIGNIFICANCE OF INDICATOR BACTERIA AND PATHOGENS IN WATER ARE PRESENTED. THE INTRODUCTORY SECTION DEALS WITH HISTORICAL PERSPECTIVES AND DEVELOPMENT OF STANDARDS IN DIFFERENT PARTS OF THE WORLD. OF SPECIAL INTEREST ARE THE PAPERS DEALING WITH AUTOMATED MONITORING TECHNIQUES AND EMERGING CONCEPTS IN THE CLASSIFICATION OF ENVIRONMENTAL ENTERIC STRAINS. (CS)

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE ST., PHILADELPHIA, PA 19103 ($34.75)

IRIS ACCESSION NUMBER: EW003194

PUBLICATION DATE: AUG 76

TITLE: SOURCES, EFFECTS AND SINKS OF HYDROCARBONS IN THE AQUATIC ENVIRONMENT.

DESCRIPTOR: BIOLOGY; CONFERENCES; *ENVIRONMENTAL INFLUENCES; ECOLOGY; *LUBRICANTS; *OCEANOLOGY; ORGANIC CHEMISTRY; POLLUTION; PUBLIC HEALTH; WASTE DISPOSAL; *WATER RESOURCES; *WATER POLLUTION CONTROL; *HYDROCARBONS

ABSTRACT: PRESENTED IN THE DOCUMENT ARE THE PAPERS AND PROCEEDINGS OF A SYMPOSIUM HELD TO DISCUSS THE SOURCES, EFFECTS AND SINKS OF HYDROCARBONS IN THE AQUATIC ENVIRONMENT. EACH SECTION DEALS WITH A SPECIFIC ASSOCIATED PROBLEM, STARTING WITH THE SOURCES AND KNOWN DISTRIBUTION OF HYDROCARBONS. SECTION 2 DEALS WITH CYCLING AS IT RELATES TO RECENT BIOGENIC HYDROCARBONS AND PETROLEUM HYDROCARBONS INCLUDING CRUDE OIL, REFINED PRODUCTS AND WASTE PRODUCTS. THE EFFECTS OF HYDROCARBONS ON BIOLOGICAL SYSTEMS FROM THE BEHAVIORAL, PHYSIOLOGICAL, AND MORPHOLOGICAL VIEWPOINTS ARE PRESENTED IN SECTION 3. THE FOURTH SECTION DISCUSSES THE SOCIOLOGICAL IMPLICATIONS OF HYDROCARBON USE. THE DOCUMENT CONCLUDES WITH A REPRINT OF A GENERAL PANEL DISCUSSION. (CS)

AVAILABILITY: THE AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, 1401 WILSON BLVD., ARLINGTON, VA 22209 ($5.00)

INSTITUTION NAME: THE AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES.

IRIS ACCESSION NUMBER: EW003195

PUBLICATION DATE: 77

TITLE: INTRODUCTION TO WASTEWATER TREATMENT PROCESSES.

PERSONAL AUTHOR: RAMALHO, R. S.

DESCRIPTOR: BIOLOGY; CHEMISTRY; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; LAND USE; *POLLUTION; POST SECONDARY EDUCATION; PROBLEM SOLVING; *WASTE DISPOSAL; WATER QUALITY; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *FACILITIES

DESCRIPTIVE NOTE: 409P.

ABSTRACT: THIS BOOK INTRODUCES FUNDAMENTAL PROCESSES OF WASTEWATER TREATMENT. THE TEXT IS DESIGNED TO TRAIN THE READER IN EVALUATION WASTEWATER TREATMENT PROBLEMS SO THAT PROPER PROCESSES AND EQUIPMENT MAY BE SELECTED. FOR EACH PROCESS THE TEXT PROVIDES: (1) A SUMMARY OF THEORY INVOLVED IN THAT PROCESS; (2) DEFINITION OF IMPORTANT DESIGN PARAMETERS INVOLVED IN THE PROCESS; AND (3) DEVELOPMENT OF A SYSTEMATIC DESIGN PROCEDURE FOR THE TREATMENT PLANT. EVERY STEP OF THIS SEQUENCE IS ILLUSTRATED WITH NUMERICAL EXAMPLES. (CS)

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($22.50)

IRIS ACCESSION NUMBER: EW003196

PUBLICATION DATE: SEP 76

TITLE: NATIONAL CONFERENCE ON DISPOSAL OF RESIDUES ON LAND.

DESCRIPTOR: CHEMICAL ANALYSIS; ECONOMICS; *ENVIRONMENTAL INFLUENCES; *LAND USE; *POLLUTION; PUBLIC HEALTH; *SOIL SCIENCE; TECHNOLOGY; *WASTE DISPOSAL; WATER POLLUTION CONTROL; HEAVY METALS; TOXICITY

DESCRIPTIVE NOTE: 216P.

ABSTRACT: THIS DOCUMENT ADDRESSES THE ISSUES SURROUNDING RESIDUALS MANAGEMENT AS PRESENTED AT THE NATIONAL CONFERENCE ON DISPOSAL OF RESIDUES ON LAND IN 1976. AREAS INCLUDED IN THE DISCUSSION ARE INDUSTRIAL AND MUNICIPAL SLUDGES, MUNICIPAL REFUSE, IRRIGATION SALTS, MINING RESIDUALS, AND AGRICULTURAL FERTILIZERS. THE PROBLEMS ARE APPROACHED FROM THE SOCIAL, POLITICAL, ECONOMIC AND TECHNOLOGICAL STANDPOINTS AS THEY RELATE TO HANDLING, TRANSPORT, TREATMENT, AND DISPOSAL OF RESIDUALS. EACH PRESENTATION INCLUDES A LIST OF CITATIONS FOR ADDITIONAL REFERENCE. (CS)

AVAILABILITY: INFORMATION TRANSFER INC., 1160 ROCKVILLE PIKE, STE. 202, ROCKVILLE, MD. 20852 ($25.00)

INSTITUTION NAME: INFORMATION TRANSFER INC.

IRIS ACCESSION NUMBER: EW003197

PUBLICATION DATE: AUG 77

TITLE: PROCEEDINGS OF THE NINTH MID-ATLANTIC INDUSTRIAL WASTE CONFERENCE.

DESCRIPTOR: CHEMICAL REACTIONS; *CONFERENCE REPORTS; ENVIRONMENTAL INFLUENCES; *INDUSTRY; METALS; POLLUTION; RECYCLING; SANITATION; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 215P.

ABSTRACT: THIS DOCUMENT CONTAINS PAPERS PRESENTED AT THE NINTH MID-ATLANTIC INDUSTRIAL WASTE CONFERENCE IN 1977. EMPHASIS IS GIVEN TO MEETING EFFLUENT REQUIREMENTS AS SET FORTH UNDER THE 1972 WATER POLLUTION CONTROL ACT AMENDMENTS. ADDITIONAL TOPICS DISCUSSED INCLUDE RECYCLING OF INDUSTRIAL WASTEWATER, RESIDUE DISPOSAL, TREATMENT METHODS, ACTIVATED SLUDGE APPLICATIONS, HEAVY METAL WASTEWATER, AND SOURCE CONTROL. EACH PAPER CONTAINS AN INTRODUCTION AND SUMMARY AND WHERE APPROPRIATE A LIST OF REFERENCES. (CS)

AVAILABILITY: INFORMATION TRANSFER INC., 1160 ROCKVILLE PIKE, SUITE 202, ROCKVILLE, MD 20852 ($17.50)

INSTITUTION NAME: INFORMATION TRANSFER INC.

IRIS ACCESSION NUMBER: EW003198

PUBLICATION DATE: 75

TITLE: PROCEEDINGS OF THE THIRD ANNUAL POLLUTION CONTROL CONFERENCE ON WATER AND WASTEWATER EQUIPMENT MANUFACTURERS ASOCIATION.

PERSONAL AUTHOR: LANGWORTHY, VIRGIL W., ED.

DESCRIPTOR: AIR POLLUTION CONTROL; CONFERENCES; *ENVIRONMENT; *EQUIPMENT; *POLLUTION; *RESEARCH; RECYCLING; *TECHNOLOGY; *WASTE DISPOSAL; WATER QUALITY; WATER POLLUTION CONTROL; NOISE POLLUTION; SOLID WASTES

DESCRIPTIVE NOTE: 915P.

ABSTRACT: THIS PROCEEDINGS PRESENTS THE TECHNICAL PAPERS GIVEN AT THE WATER AND WASTEWATER EQUIPMENT MANUFACTURERS ASSOCIATION THIRD ANNUAL INDUSTRIAL POLLUTION CONFERENCE AND EXPOSITION, 1975. INCLUDED TOPICS ARE CONCERNED WITH WATER, AIR, NOISE AND SOLID WASTE POLLUTION, ESPECIALLY AS THEY RELATE TO PROVIDING EQUIPMENT AND SERVICES USED IN CONTROLLING ENVIRONMENTAL POLLUTION. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($25.00)

IRIS ACCESSION NUMBER: EW003199

PUBLICATION DATE: 77

TITLE: POLLUTION CONTROL FOR AGRICULTURE.

PERSONAL AUTHOR: LOEHR, RAYMOND C.

DESCRIPTOR: *AGRICULTURE; BIOCHEMISTRY; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; PESTICIDES; *POLLUTION; TECHNOLOGY; WASTE DISPOSAL; *WASTES; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 383P.

ABSTRACT: THIS BOOK PRESENTS A SUMMARY OF THE PROCESSES AND APPROACHES APPLICABLE TO AGRICULTURAL WASTE MANAGEMENT PROBLEMS. IMPLICATIONS AND POSSIBLE MANAGEMENT SYSTEMS FOR CROP PRODUCTION ARE ALSO DISCUSSED. EMPHASIS IS PLACED ON THE PROCESSES THAT APPEAR MOST ADAPTABLE TO THE TREATMENT, DISPOSAL AND MANAGEMENT OF AGRICULTURAL WASTES. EXAMPLES IN WHICH THE PROCESSES OR APPROACHES WERE USED WITH AGRICULTURAL WASTES ARE INCLUDED TO ILLUSTRATE THE FUNDAMENTALS AS WELL AS THE DESIGN AND OPERATIONAL FACETS. THIS BOOK IS A SUBSTANTIAL REVISION OF "AGRICULTURAL WASTE MANAGEMENT" PUBLISHED IN 1974 BY ACADEMIC PRESS, AND IS INTENDED TO MEET THE NEEDS OF AN UPPER LEVEL UNDERGRADUATE OR A GRADUATE LEVEL COURSE. IT IS ALSO INTENDED TO SERVE AS AN INTRODUCTION FOR INDIVIDUALS IN MANY ORGANIZATIONS AND AGENCIES WHO ARE INTERESTED IN KNOWING AND APPLYING FEASIBLE AGRICULTURAL WASTE MANAGEMENT CONCEPTS AND APPROACHES. THE BOOK INCLUDES 14 CHAPTERS AND AN APPENDIX: CHARACTERISTICS OF AGRICULTURAL WASTES. A LIST OF REFERENCES IS ALSO PRESENTED AT THE END OF EACH CHAPTER. (HM)

AVAILABILITY: ACADEMIC PRESS INC., 111 FIFTH AVE., NEW YORK, NY 10003 ($17.00)

IRIS ACCESSION NUMBER: EW003200

PUBLICATION DATE: 76

TITLE: STORMWATER MODELING.

PERSONAL AUTHOR: OVERTON, DONALD E.; MEADOWS, MICHAEL E.

DESCRIPTOR: CALCULATION; *ENGINEERING TECHNOLOGY; ENVIRONMENT; LAND USE; *MATHEMATICAL MODELS; POLLUTION; STATISTICAL ANALYSIS; *URBAN ENVIRONMENT; *WATER POLLUTION CONTROL; *WATER RESOURCES; WASTERSHEDS; *STORMWATER; *SURFACE RUNOFF

DESCRIPTIVE NOTE: 358P.

ABSTRACT: THIS BOOK PRESENTS THE FUNDAMENTALS OF DETERMINISTIC, PARAMETRIC, AND STOCHASTIC STORMWATER MODELING AS IT APPLIES TO PROFESSIONALS CONCERNED WITH EVALUATING THE EFFECTS OF LAND USE ON STORMWATER AS IT RELATES TO FEASIBILITY STUDIES, PLANNING, AND/OR DESIGN WORK. THE TEXT DEALS WITH BOTH THE QUANTITY AND QUALITY OF RAINFALL-RUNOFF AND PRESENTS THE CURRENT METHODOLOGIES FOR CONTROL. TOPICS INCLUDE RAINFALL EXCESS, KINEMATIC FLOW APPROXIMATION, EXAMPLES OF DETERMINISTIC STORMWATER MODELING, EVALUATION OF EFFECTS OF URBANIZATION ON STORMWATER, REGIONALIZATION OF MODEL PARAMETERS, AND DEVELOPMENT OF STORMWATER QUALITY INDICES. (CS)

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($22.50)

IRIS ACCESSION NUMBER: EW003201

PUBLICATION DATE: 77

TITLE: WATER AT THE SURFACE OF THE EARTH.

PERSONAL AUTHOR: MILLER, DAVID H.

DESCRIPTOR: CLIMATIC FACTORS; *EARTH SCIENCE; *ECOLOGY; ENERGY; ENVIRONMENTAL EDUCATION; *GEOPHYSICS; *HIGHER EDUCATION; *MANAGEMENT; METEOROLOGY; *PHYSICAL ENVIRONMENT; URBAN ENVIRONMENT; *WATER RESOURCES

DESCRIPTIVE NOTE: 557P.

ABSTRACT: THIS BOOK PRESENTS SOME OF THE WAYS THAT BIOLOGICAL, PHYSICAL, CULTURAL AND URBAN SYSTEMS AT THE SURFACE OF THE EARTH OPERATE. IT DEALS PRIMARILY WITH THE HYDRODYNAMICS OF ECOSYSTEMS. IT ALSO APPROACHES THE DYNAMICS OF WATER IN TERRESTRIAL SYSTEMS THROUGH THE BUDGETS OF WATER IN EACH ZONE OR ENVIRONMENT OF A SYSTEM SUCH AS THE CANOPY, THE GROUND SURFACE AND THE SOIL. THE FOLLOWING 18 CHAPTERS ARE PRESENTED IN THIS BOOK: (1) INTRODUCTION; (2) ATMOSPHERIC VAPOR FLOWS AND ATMOSPHERIC STORMS; (3) POINT RAINFALL; (4) HYDROLOGIC STORMS; (5) LARGE-SCALE ORGANIZATION OF RAINFALL; (6) RECEPTION OF WATER BY ECOSYSTEMS; (7) WATER DETAINED ON THE SOIL SURFACE; (8) INFILTRATION OF WATER INTO THE SOIL OF AN ECOSYSTEM; (9) SOIL MOISTURE; (10) EVAPORATION FROM WET SURFACES; (11) EVAPORATION FROM WELL-WATERED ECOSYSTEMS; (12) EVAPORATION FROM DRYING ECOSYSTEMS; (13) WATER IN THE LOCAL AIR; (14) PERCOLATION FROM ECOSYSTEMS; (15) GROUNDWATER AND ITS OUTFLOWS INTO LOCAL ECOSYSTEMS; (16) SURFACE TRANSPORTS FROM ECOSYSTEMS; (17) OFF-SITE YIELD OF ECOSYSTEMS; AND (18) WATER IN ECOSYSTEMS. THIS BOOK IS VOLUME 21 IN THE INTERNATIONAL GEOPHYSICS SERIES. (HM)

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($47.51)

IRIS ACCESSION NUMBER: EW003202

PUBLICATION DATE: 74

TITLE: OPTIMAL EXPANSION OF A WATER RESOURCES SYSTEM.

PERSONAL AUTHOR: O'LAOGHAIRE, D. T.; HIMELBLAU, D. M.

DESCRIPTOR: CALCULATION; *COMPUTER PROGRAMS; ENVIRONMENTAL TECHNOLOGY; *MATHEMATICAL MODELS; MANAGEMENT; NATURAL RESOURCES; POLLUTION; *WATER POLLUTION CONTROL; *WATER RESOURCES

DESCRIPTIVE NOTE: 273P.

ABSTRACT: THIS BOOK DESCRIBES A PRACTICAL METHODOLOGY FOR WATER RESOURCES PLANNING. THE FIRST TWO CHAPTERS ESTABLISH THE CRITERIA AND SCOPE OF THE PROBLEM AND DISCUSS THE SYSTEM MODEL. CHAPTER 3 DEVELOPS AN OPTIMIZATION STRATEGY. IN CHAPTER 4 AN EXAMPLE PROBLEM IS FORMULATED, SOLVED, AND DISCUSSED. CHAPTER 5 SHOWS HOW TO CARRY OUT A SENSITIVITY ANALYSIS TO DISCOVER THE CRITICAL PARAMETERS AND THE LAST CHAPTER INDICATES HOW WATER QUALITY MAY BE INCORPORATED. A FORTRAN LISTING OF A COMPUTER PROGRAM EXECUTING THE OPTIMIZATION ALGORITHM IS PROVIDED IN THE APPENDIX. (CS)

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($24.25)

IRIS ACCESSION NUMBER: EW003203

PUBLICATION DATE: JAN 78

TITLE: ALTERNATIVE ON-SITE SYSTEMS HANDBOOK.

PERSONAL AUTHOR: OECHSLE, RUSS; SOLMS, JENNIFER

DESCRIPTOR: ECONOMICS; *INSTRUCTIONAL MATERIALS; MANAGEMENT; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *ONSITE DISPOSAL; *OPERATIONS (WASTEWATER)

DESCRIPTIVE NOTE: 34P.

ABSTRACT: THIS BOOKLET DISCUSSES THE FOLLOWING ON-SITE WASTE SYSTEMS: COMPOST TOILETS, INCINERATOR TOILETS, AEROBIC SYSTEMS, SEPTIC TANKS, OUTHOUSES, CHEMICAL TOILETS, AND HOLDING TANKS. EACH SYSTEM IS DESCRIBED BRIEFLY AND ADVANTAGES, DISADVANTAGES, COSTS, AND OPERATION AND MAINTENANCE ARE PRESENTED ALONG WITH CROSS SECTIONAL DRAWINGS. A CHART COMPARES THE ACCEPTABILITY OF EACH ON-SITE SYSTEM FOR USE ON SEVEN TYPES OF SITES. LISTS OF MANUFACTURERS AND DISTRIBUTORS ARE GIVEN. (BB)

AVAILABILITY: MADISON COUNTY PLANNING DEPT., P.O. BOX 606, WAMPSVILLE, NY 13163 ($0.50)

IRIS ACCESSION NUMBER: EW003206

PUBLICATION DATE: AUG 73

TITLE: ENHANCING TRICKLING FILTER PLANT PERFORMANCE BY CHEMICAL PRECIPITATION.

PERSONAL AUTHOR: DERRINGTON, ROBERT E.; AND OTHERS

DESCRIPTOR: BIOLOGY; CHEMISTRY; ENVIRONMENTAL INFLUENCES; EVALUATION; *FACILITIES; *LABORATORY TESTS; MANAGEMENT; PUBLIC HEALTH; *POLLUTION; *UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *OPERATIONS (WASTEWATER); *TRICKLING FILTERS; *WASTEWATER TREATMENT; WASTEWATER TREATMENT PLANTS

DESCRIPTIVE NOTE: 117P.

ABSTRACT: THIS DOCUMENT REPORTS ON A STUDY UNDERTAKEN IN RICHARDSON, TEXAS TO DEMONSTRATE THAT CONTROLLED IN-PLAN CHEMICAL ADDITION COULD SUBSTANTIALLY UPGRADE OVERAL PERFORMANCE OF A FULL-SCALE STANDARD-RATE TRICKLING FILTE PLANT. THIS REPORT INCLUDES A DESCRIPTION OF MODIFICATION UNDERTAKEN TO THE EXISTING PLANT, A DESCRIPTION OF CHEMICA FEED EQUIPMENT AND DOSING OPTIONS, A SUMMARY OF PERTINEN RESULTS, AND A DISCUSSION OF THOSE RESULTS. TWO YEARS O STUDY INDICATED METAL ADDITION WAS AN EFFECTIVE EFFLUEN POLISHING TECHNIQUE AT THIS CONVENTIONAL WASTEWATE TREATMENT PLANT. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, V 22151 ($6.50)

IRIS ACCESSION NUMBER: EW003209

PUBLICATION DATE: 77

TITLE: INDIVIDUAL ONSITE WASTEWATER SYSTEMS. PROCEEDINGS O THE 1ST NATIONAL CONFERENCE, 1974.

PERSONAL AUTHOR: MCCLELLAND, NINA I., ED.

DESCRIPTOR: *CONFERENCE REPORTS; CONSERVATION ENVIRONMENTAL INFLUENCES; LEGISLATION; *LAND USE *POLLUTION; *PUBLIC HEALTH; RECYCLING; SANITATION; *WAST DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *ONSIT WASTEWATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 166P.

ABSTRACT: THIS DOCUMENT EXAMINES NEW METHODS FOR INDIVIDUA ONSITE WASTEWATER SYSTEMS AND PROVIDES INFORMATION ON TH STATE-OF-THE-ART. SECTION ONE ADDRESSES THE GENERA PERSPECTIVES OF ONSITE SYSTEMS AND THE EFFECT OF THE FEDERA WATER POLLUTION CONTROL ACT. SECTION TWO GIVES DETAILE COVERAGE ON PROBLEMS OF CONFLICTING REGULATIONS AN ENFORCEMENT PRACTICES. THE RESULTS FROM SEVERAL RESEARCH AN DEMONSTRATION PROJECTS IN ONSITE DISPOSAL ARE SUMMARIZED I THE THIRD SECTION. THE FINAL SECTION COVERS WORKSHOP REPORT FROM THE FIRST NATIONAL CONFERENCE REGARDING INDIVIDUA ONSITE WASTEWATER SYSTEMS AND DISCUSSES TREATMENT METHODS EFFLUENT DISPOSAL METHODS AND REGULATION AND ENFORCEMEN PRACTICES. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425 ANN ARBOR, MI 48106 ($20.00)

IRIS ACCESSION NUMBER: EW003210

PUBLICATION DATE: 77

TITLE: INDIVIDUAL ONSITE WASTEWATER SYSTEMS. PROCEEDINGS O THE 2ND NATIONAL CONFERENCE, 1975.

PERSONAL AUTHOR: MCCLELLAND, NINA I., ED.

DESCRIPTOR: *CONFERENCE REPORTS; CONSERVATION ENVIRONMENTAL INFLUENCES; *LAND USE; *POLLUTION; *PUBLI HEALTH; RECYCLING; SANITATION; *WASTE DISPOSAL; *WATE POLLUTION CONTROL; WATER QUALITY; *ONSITE WASTEWATE SYSTEMS; *ONSITE DISPOSAL; *ONSITE WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 218P.

ABSTRACT: EXAMINED ARE NEW METHODS FOR INDIVIDUAL ONSIT WASTEWATER SYSTEMS. INFORMATION ON THE STATE-OF-THE-ART I ALSO PROVIDED. SECTION ONE DEALS WITH THE IMPACT OF ONLO SYSTEMS ON LAND DEVELOPMENT FROM THE REGULATORY, PRIVAT DEVELOPER AND CITIZENS' POINTS OF VIEW. SECTION TW DISCUSSES THE NEWER METHODS OF ONSITE TREATMENT AN DISPOSAL. THE EFFECTS OF EFFLUENTS ON GROUNDWATER AND TH RELATIONSHIP OF SOIL TO EFFLUENT CHARACTERISTICS ARE COVERE IN SECTIONS THREE AND FOUR. THE FINAL SECTION EXAMINES TH PROBLEM OF ADEQUACY AND UNIFORMITY OF REGULATIONS FOR ONSIT DISPOSAL FROM THE LOCAL AND STATE POINTS OF VIEW. THE BOO CONCLUDES WITH A LOOK INTO THE FUTURE OF ONSITE WASTEWATE DISPOSAL. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P. O. BOX 1425 ANN ARBOR, MI 48106 ($20.00)

IRIS ACCESSION NUMBER: EW003211

PUBLICATION DATE: 77

TITLE: INDIVIDUAL ONSITE WASTEWATER SYSTEMS. PROCEEDINGS OF THE 3RD NATIONAL CONFERENCE, 1976.

PERSONAL AUTHOR: MCCLELLAND, NINA I., ED.

DESCRIPTOR: *CONSERVATION; ENVIRONMENTAL INFLUENCES; *LAND USE; *POLLUTION; PUBLIC HEALTH; RECYCLING; SANITATION *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY *ONSITE WASTEWATER SYSTEMS; *WASTEWATER TREATMENT; *ONSIT WASTEWATER TREATMENT; ONSITE DISPOSAL

DESCRIPTIVE NOTE: 319P.

ABSTRACT: EXAMINED ARE NEW METHODS FOR INDIVIDUAL ONSITE WASTEWATER SYSTEMS AND INFORMATION ON THE STATE-OF-THE-ART SPECIAL COVERAGE IS GIVEN TO METHODS OF GREYWATER AN BLACKWATER TREATMENT FOR WATER CONSERVATION AND REUSE I AREAS WHERE SOIL COMPOSITION PROHIBITS PERCOLATION, OR LAN FOR ULTIMATE DISPOSAL IS NOT AVAILABLE. TOPICS DISCUSSE INCLUDE: RURAL WASTEWATER PROBLEMS, SEPTIC SYSTEM REPAIR SAND MOUNDS AND FILTERS, EVAPOTRANSPIRATION SYSTEMS PRESSURE SEWERS, MANAGEMENT GUIDELINES, SURFACE DISCHARGE AND THE SEWAGE OSMOSIS CONCEPT. REFERENCES ARE INCLUDED WIT EACH CHAPTER. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($22.50)

IRIS ACCESSION NUMBER: EW003212

PUBLICATION DATE: 77

TITLE: DRINKING WATER QUALITY ENHANCEMENT THROUGH SOURCE PROTECTION.

PERSONAL AUTHOR: PROJASEK, ROBERT B.

DESCRIPTOR: CHEMISTRY; ENVIRONMENTAL CRITERIA; LAND USE; *LEGISLATION; *POLLUTION; *RESEARCH; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY; *SOURCE PROTECTION (WATER)

DESCRIPTIVE NOTE: 614P.

ABSTRACT: THIS BOOK SHOWS HOW AN ACTIVE SOURCE PROTECTION PROGRAM CAN ELIMINATE THE NEED FOR RENOVATING AND UPGRADING WASTEWATER TREATMENT PLANTS. CASE HISTORIES SHOW HOW SOURCE PROTECTION PRACTICES NOW IN USE INCREASE WATER QUALITY STANDARDS WITH MINIMAL EXTRA EXPENSE. TOPICS DISCUSSED INCLUDE GROUNDWATER SOURCE PROTECTION, LAND DISPOSAL OF SLUDGE, INDUSTRIAL HAZARDOUS WASTE DISPOSAL, NATURAL ORGANICS, NON-POINT POLLUTION SOURCES, AND METALS CONTAMINATION. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($32.50)

IRIS ACCESSION NUMBER: EW003213

PUBLICATION DATE: 77

TITLE: HANDBOOK OF WATER QUALITY MANAGEMENT PLANNING.

PERSONAL AUTHOR: PAVONI, JOSEPH L.

DESCRIPTOR: COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; LAND USE; *LEGISLATION; *MANAGEMENT SYSTEMS; PLANNING; *POLLUTION; PUBLIC SUPPORT; WASTE DISPOSAL; *WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 419P.

ABSTRACT: THIS BOOK OUTLINES THE DEVELOPMENT OF WATER QUALITY MANAGEMENT PLANNING IN THE U.S. IT DESCRIBES THE PURPOSE, SCOPE, AND APPROACH OF VARIOUS PLANNING STUDIES, FROM EARLY TURN-OF-THE-CENTURY LEGISLATIVE ATTEMPTS TO CONTEMPORARY LEVELS OF PLANNING ESTABLISHED BY PL 92-500- RIVER BASIN PLANNING, AREAWIDE PLANNING, AND FACILITIES PLANNING. DISCUSSED ARE THE INTRICATE RELATIONSHIPS BETWEEN QUALITY MANAGEMENT PLANNING AND LAND USE PLANNING. THESE INCLUDE FEDERAL VERSUS LOCAL CONTROL, IMPACTS OF LAND USE ON WATER RESOURCES, AND THE WATER QUALITY IMPACT OF URBAN DEVELOPMENT. A LIST OF REFERENCES IS PROVIDED WITH EACH CHAPTER. (AUTHOR/CS)

AVAILABILITY: VAN NOSTRAND/REINHOLD CO., 450 W 33RD ST., NEW YORK, NY 10001 ($37.50)

IRIS ACCESSION NUMBER: EW003214

PUBLICATION DATE: 77

TITLE: FOOD, FERTILIZER AND AGRICULTURAL RESIDUES.

PERSONAL AUTHOR: LOEHR, RAYMOND C., ED.

DESCRIPTOR: *AGRICULTURE; *ENVIRONMENT; *ENERGY; *FERTILIZERS; LAND APPLICATION; NATURAL RESOURCES; *WASTE DISPOSAL; *WASTEWATER DISPOSAL; *SLUDGE; ECONOMICS; REGULATION

DESCRIPTIVE NOTE: 727P.

ABSTRACT: THIS VOLUME EXPLORES APPROACHES TO UTILIZING THE NUTRIENT AND ENERGY RESOURCES IN MUNICIPAL AND AGRICULTURAL RESIDUES, DECREASING THE LOSSES OF FERTILIZER NUTRIENTS, AND AVOIDING ENVIRONMENTAL PROBLEMS CAUSED BY RESIDUES OF FOOD PRODUCTION. MAJOR TOPICS COVERED INCLUDE MUNICIPAL SLUDGE MANAGEMENT AND UTILIZATION, LAND APPLICATION OF WASTEWATER, METHANE PRODUCTION FROM AGRICULTURAL WASTES, ANIMAL WASTE MANAGEMENT ALTERNATIVES, FERTILIZER APPLICATION RATES AND TIMING, AND THE ECONOMIC AND REGULATORY ASPECTS OF AND USE OF AGRICULTURAL RESIDUES AS SOURCES OF ENERGY. LABORATORY, PILOT PLANT AND FULL SCALE STUDIES ARE DOCUMENTED. (AUTHOR/BB)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($32.50)

IRIS ACCESSION NUMBER: EW003215

PUBLICATION DATE: 78

TITLE: PROCEEDINGS OF THE 32ND INDUSTRIAL WASTE CONFERENCE, MAY 10, 11, 12, 1977. PURDUE UNIVERSITY.

DESCRIPTOR: *INDUSTRY; *POLLUTION; *RESEARCH; SANITATION; *TECHNICAL MATERIAL; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 1111P.

ABSTRACT: PRESENTED ARE OVER ONE HUNDRED PAPERS ON ALL ASPECTS OF INDUSTRIAL WASTE DISPOSAL. SOME EXAMPLES ARE: OYE WASTEWATER (ALTERNATIVES FOR BIOLOGICAL WASTE TREATMENT), THERMAL REGENERATION OF ACTIVATED CARBON, AND TREATABILITY STUDIES AND DESIGN CONSIDERATIONS FOR TEXTILE MILL WASTEWATER. (BB)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($39.95)

IRIS ACCESSION NUMBER: EW003216

ERIC ACCESSION NUMBER: ED157687

PUBLICATION DATE: JAN 71

TITLE: SANITARY ENGINEERING UNIT OPERATIONS AND UNIT PROCESSES LABORATORY MANUAL.

INSTITUTION CODE: BBB04927

DESCRIPTOR: *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *LEARNING ACTIVITIES; SANITATION; SCIENCE EDUCATION; *WASTEWATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 98P.

ISSUE: RIEDEC78

ABSTRACT: THIS MANUAL CONTAINS A COMPILATION OF EXPERIMENTS IN PHYSICAL OPERATIONS, BIOLOGICAL AND CHEMICAL PROCESSES FOR VARIOUS EDUCATION AND EQUIPMENT LEVELS. THE EXPERIMENTS ARE DESIGNED TO BE FLEXIBLE SO THAT THEY CAN BE ADAPTED TO FIT THE NEEDS OF A PARTICULAR PROGRAM. THE MAIN EMPHASIS IS ON HANDS-ON STUDENT EXPERIENCES TO PROMOTE UNDERSTANDING. EXPERIMENT TOPICS INCLUDE: (1) COAGULATION AND FLOCCULATION, (2) SEDIMENTATION, (3) FILTRATION, (4) DISINFECTION, (5) ION EXCHANGE, AND (6) BIOLOGICAL OXIDATION. EACH ACTIVITY PROVIDES BACKGROUND INFORMATION, OBJECTIVE, PROCEDURE, ANALYSIS, PROBLEMS AND QUESTIONS, AND REFERENCES. (MA)

AVAILABILITY: AEEP, C/O MICHAEL J. HUMENICK, DEPARTMENT OF CIVIL ENGINEERING, UNIVERSITY OF TEXAS AT AUSTIN, AUSTIN, TEXAS 78712 ($12.00; ADD $1.25 FOR SHIPPING AND HANDLING FOR 1-5 COPIES, $2.50 FOR 6-10 COPIES, ETC.)

INSTITUTION NAME: AMERICAN ASSOCIATION OF PROFESSORS IN SANITARY ENGINEERING.

IRIS ACCESSION NUMBER: EW003217

ERIC ACCESSION NUMBER: ED157688

PUBLICATION DATE: SEP 77

TITLE: APPLICATION OF LANDSAT TO THE SURVEILLANCE OF LAKE EUTROPHICATION IN THE GREAT LAKES BASIN. FINAL REPORT.

PERSONAL AUTHOR: ROGERS, ROBERT H.

INSTITUTION CODE: BBB14458

SPONSORING AGENCY CODE: BBB06650

DESCRIPTOR: *COMPUTER ORIENTED PROGRAMS; *ECOLOGICAL FACTORS; ECOLOGY; ENVIRONMENTAL INFLUENCES; *LAND USE; NATURAL RESOURCES; *REPORTS; *SCIENCES; *WATER POLLUTION CONTROL; LANDSAT; *REMOTE SENSING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 197P.; COLORED PHOTOGRAPHS WILL NOT REPRODUCE WELL

ISSUE: RIEDEC78

ABSTRACT: THIS DOCUMENT REVIEWS THE PROCESS BY WHICH THE COST BENEFITS OF USING LANDSAT ON AN OPERATIONAL BASIS IN THE SURVEILLANCE OF LAKE EUTROPHICATION WAS ESTABLISHED. THE PROGRAM IDENTIFIED THE INFORMATION NEEDS OF USERS CONDUCTING ON-GOING WATER QUALITY PROGRAMS, TRANSFORMED THESE NEEDS INTO REMOTE SENSING REQUIREMENTS, PRODUCED LANDSAT MAPS AND DATA GRAPHICS RESPONSIVE TO THE REQUIREMENTS, AND COMPARED THE INFORMATION AND COST ACHIEVED BY LANDSAT WITH THOSE OBTAINED FROM OTHER DATA SOURCES. THE STUDY WAS USED TO SUPPORT THE EPA'S STUDY OF LAKE EUTROPHICATION IN SAGINAW BAY, MICHIGAN AND THE STATE OF WISCONSIN'S LAKE AND WATERSHED STUDIES. THE SIGNIFICANT RESULTS OF THE PROGRAM INCLUDED THE DEMONSTRATION OF COST-EFFECTIVE SYSTEMS FOR MONITORING: (1) TROPHIC STATE OF AREAS/SCENES CONTAINING 200 OR MORE LAKES OF 50 ACRES OR LARGER; (2) TROPHIC STATE OF THE GREAT LAKES; AND (3) WATERSHED LAND USE REQUIRED TO PREDICT POLLUTANTS IN RUNOFF. (AUTHOR/MA)

REPORT NUMBER: BSR-4291

CONTRACT NUMBER: NASA-5-20942

INSTITUTION NAME: BENDIX CORP., ANN ARBOR, MICH.

SPONSORING AGENCY NAME: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD. GODDARD SPACE FLIGHT CENTER.

IRIS ACCESSION NUMBER: EW003218

PUBLICATION DATE: 77

TITLE: PRINCIPLES OF INDUSTRIAL WATER TREATMENT.

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL INFLUENCES; ENGINEERING; *INDUSTRY; *INSTRUCTIONAL MATERIALS; POLLUTION; SYSTEMS ANALYSIS; *WATER POLLUTION CONTROL; *WATER QUALITY; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 310P.

ABSTRACT: PROVIDED IS AN INTRODUCTION TO INDUSTRIAL WATER TREATMENT PLUS AN UP-TO-DATE OVERVIEW OF THE CURRENT STATE OF THE ART. TOPICS DISCUSSED INCLUDE EXTERNAL WATER TREATMENT PROCESSES, COOLING WATER CORROSION AND DEPOSIT CONTROL AND CLEANING METHODS, OPEN EVAPORATIVE SYSTEMS, ONCE-THROUGH SYSTEMS, AND CLOSED SYSTEMS, STEAM GENERATING SYSTEMS, AND FEED AND CONTROL OF INTERNAL TREATMENT CHEMICALS. PHYSICAL PROPERTIES TABLES ARE INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: DREW CHEMICAL CORP., ONE DREW CHEMICAL PLAZA, BOONTON, NJ 07005 ($20.00)

INSTITUTION NAME: DREW CHEMICAL CORP.

IRIS ACCESSION NUMBER: EW003219

PUBLICATION DATE: 76

TITLE: HARVESTING POLLUTED WATERS: WASTE, HEAT AND NUTRIENT-LOADED EFFLUENTS IN THE AQUACULTURE.

PERSONAL AUTHOR: DEVIK, O., ED.

DESCRIPTOR: AGRICULTURE; BIOLOGY; BOTANY; *ENVIRONMENTAL INFLUENCES; FERTILIZERS; FISHERIES; MARINE BIOLOGY; *OCEANOLOGY; *POLLUTION; RESEARCH; *RECYCLING; *WASTE DISPOSAL; *WATER RESOURCES; *MARICULTURE

DESCRIPTIVE NOTE: 324P.

ABSTRACT: THIS PUBLICATION EXPLORES THE PROBLEMS AND POTENTIALS OF UTILIZING RELATIVELY LARGE BODIES OF WATER WHICH ARE FERTILIZED AND HEATED BY RECYCLABLE WASTES. THE TEXT COMBINES A SURVEY OF PRESENT KNOWLEDGE WITH REPORTS OF EXPERIMENTS DESIGNED TO DEVISE NEW METHODS OF TURNING WASTE HEAT AND MINERALS TO PROFITABLE USE. INFORMATION PRESENTED INCLUDES: MARINE ALGAE PRODUCTION; CULTURING SELECTED ORGANISMS SUCH AS HIGHER PLANTS, MOLLUSKS, AND FISH; AND THE GRAZING BEHAVIOR OF HERBIVORES. (CS)

AVAILABILITY: PLENUM PUBLISHING CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($29.50)

IRIS ACCESSION NUMBER: EW003220

ERIC ACCESSION NUMBER: ED157714

PUBLICATION DATE: DEC 77

TITLE: MARINE FLORA AND FAUNA OF THE NORTHEASTERN UNITED STATES. COPEPODA: LERNAEOPODIDAE AND SPHYRIIDAE.

PERSONAL AUTHOR: HO, JU-SHEY

INSTITUTION CODE: BBB09514

DESCRIPTOR: BIOLOGY; COLLEGE SCIENCE; HIGHER EDUCATION; *MARINE BIOLOGY; *OCEANOLOGY; SCIENCE EDUCATION; *SCIENTIFIC RESEARCH; *TAXONOMY; *ZOOLOGY; *COPEPODS; *KEYS (BIOLOGY)

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 22P.; FOR RELATED DOCUMENTS, SEE ED 151 154 AND ED 151 157

ISSUE: RIEDEC78

ABSTRACT: THIS REPORT IS PART OF A SUB-SERIES TO AID BIOLOGY STUDENTS, BIOLOGISTS, BIOLOGICAL OCEANOGRAPHERS, AND INFORMED LAYMEN IN THE IDENTIFICATION AND STUDY OF MARINE FLORA AND FAUNA OF THE NORTHEASTERN UNITED STATES. CONTENTS OF THIS REPORT INCLUDE: (1) INTRODUCTION; (2) GLOSSARY; (3) KEY TO THE MARINE LERNAEOPODOID COPEPODS OF THE NORTHEASTERN UNITED STATES; (4) ANNOTATED SYSTEMATIC LIST; (5) SELECTED BIBLIOGRAPHY; (6) SYSTEMATIC INDEX; (7) ACKNOWLEDGMENTS; AND (8) COORDINATING EDITOR'S COMMENTS. THE "ORDER LERNAEOPODIDEA" CONSISTS OF FOUR FAMILIES OF PARASITIC COPEPODS. THE LERNAEOPODOID COPEPODA CONSISTS OF SOME 300 SPECIES OF EXTREMELY TRANSFORMED COPEPODS THAT ARE ALL PARASITES OF FISH KNOWN TO FISHERMEN AS "GILL MAGGOTS." MANY SPECIES ARE VAGUELY KNOWN. THIS REPORT PRESENTS A KEY TO THE SIXTEEN SPECIES OF LERNAEOPODOID COPEPODS THAT HAVE BEEN REPORTED ON FISHES FROM MAINE TO VIRGINIA. THE KEY IS ONLY FOR THE FEMALES BECAUSE THE DWARF MALE IS CHARACTERISTICALLY ATTACHED TO ITS FEMALE PARTNER. THE ANNOTATED SYSTEMATIC LISTS GIVE KNOWN HOSTS FOR EACH OF THESE 16 SPECIES. (MR)

REPORT NUMBER: NOAA-TR-NMFS-CIRC-406

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 003-017-00412-1; NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (DOC), ROCKVILLE, MD. NATIONAL MARINE FISHERIES SERVICE.

IRIS ACCESSION NUMBER: EW003221

PUBLICATION DATE: 77

TITLE: SURFACE WATER SEWERAGE.

PERSONAL AUTHOR: BARTLETT, RONALD E.

DESCRIPTOR: CALCULATION; CONSERVATION; *ENVIRONMENTAL INFLUENCES; *HIGHER EDUCATION; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; PUBLIC HEALTH; SANITATION; *URBAN ENVIRONMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *SEWERS; *WASTEWATER COLLECTION; *SURFACE RUNOFF

DESCRIPTIVE NOTE: 117P.

ABSTRACT: THIS BOOK COVERS THOSE ASPECTS OF RAINFALL AND RUN-OFF WHICH AFFECT SURFACE WATER SEWERAGE DESIGN, TOGETHER WITH THE HYDRAULIC AND STRUCTURAL CALCULATIONS OF THE SEWERS THEMSELVES. THE METRIC SYSTEM IS UTILIZED THROUGHOUT THE TEXT WITH A CONVERSION TABLE PROVIDED IN APPENDIX FOR REFERENCE. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08873 ($17.50)

IRIS ACCESSION NUMBER: EW003222

PUBLICATION DATE: 76

TITLE: THE DESIGN AND OPERATION OF SMALL SEWAGE WORKS.

PERSONAL AUTHOR: BARNES, D.; WILSON, F.

DESCRIPTOR: CHEMISTRY; *ENGINEERING TECHNOLOGY; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; URBAN ENVIRONMENT; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WASTEWATER TREATMENT PLANTS

DESCRIPTIVE NOTE: 180P.

ABSTRACT: THIS BOOK CONVEYS THE BASIC PRINCIPLES OF WASTE TREATMENT PROCESSES AND POINTS OUT THE ADVANTAGES, DISADVANTAGES, DIFFICULTIES, AND LIMITATIONS OF THESE VARIOUS PROCESSES. CHAPTERS 1, 2, AND 3 PROVIDE A GENERAL INTRODUCTION TO THE SUBJECT AS A WHOLE. THE PHYSICAL FACILITIES AND THEIR CONSTRUCTION ARE DISCUSSED IN CHAPTERS 4 THROUGH 6. THE UNIT OPERATIONS APPROACH, WHERE INDIVIDUAL PROCESSES OR OPERATIONS ARE DISCUSSED, COMPRISES THE INFORMATION PRESENTED IN CHAPTERS 7 THROUGH 11. THE REMAINING CHAPTERS FOCUS ON EQUIPMENT, OPERATION AND MAINTENANCE, AND COMPARISONS OF PROCESSES AND PLANT DESIGNS. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($17.50)

IRIS ACCESSION NUMBER: EW003223

PUBLICATION DATE: 77

TITLE: CONSTRUCION OF LININGS FOR RESERVOIRS, TANKS AND POLLUTION CONTROL FACILITIES.

PERSONAL AUTHOR: KAYS, WILLIAM B.

DESCRIPTOR: CONSERVATION; *CONSTRUCTION; *ENVIRONMENTA INFLUENCES; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; LAND USE; POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *SEEPAGE CONTROL

DESCRIPTIVE NOTE: 379P.

ABSTRACT: THIS BOOK DESCRIBES THE TECHNOLOGY OF LININGS FO SEEPAGE CONTROL IN RESERVOIRS, LAKES, PONDS, AND RELATE HYDRAULIC FACILITIES USED FOR WATER CONSERVATION AN POLLUTION CONTROL. EMPHASIS IS GIVEN TO THE EARTHE RESERVOIR, BUT OTHER FORMS OF CONTAINMENT SUCH AS CONCRETE AND STEEL TANKS ARE EXAMINED. THE TEXT EXAMINES THE FLEXIBLE LINING MATERIALS KNOWN AS ELASTOMERIC MEMBRANES AND DISCUSSES THEIR ADVANTAGES OF ZERO PERMEABILITY, GOO ECONOMICS, AND LARGE SHEET CAPACITY AS WELL AS MAUFACTURE, COST, PROPERTIES, TESTING AND INSTALLATION. NON-CONTINUOU LININGS SUCH AS CEMENT, GUNITE, ASPHALT, COMPACTED EARTH AN CHEMICAL TREATMENTS ARE ALSO COVERED. THE APPENDICES CONTAIN A GLOSSARY, TRADE NAMES AND SOURCES, AND THE STANDARD RESERVOIR TABLES FOR REFERENCE. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($26.75)

IRIS ACCESSION NUMBER: EW003224

PUBLICATION DATE: 76

TITLE: PRACTICAL HYDRAULICS.

PERSONAL AUTHOR: SIMON, ANDREW L.

DESCRIPTOR: *ENGINEERING; ENVIRONMENTAL INFLUENCES; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; MATHEMATICS; NATURAL RESOURCES; *POST SECONDARY EDUCATION; SCIENCES; *TECHNOLOGY; *WATER RESOURCES

DESCRIPTIVE NOTE: 306P.

ABSTRACT: THIS BOOK PROVIDES INFORMATION ON PRACTICAL ANSWERS TO EVERYDAY HYDRAULIC PROBLEMS. THE TOPICS ARE PRESENTED AS THEY APPEAR IN PRACTICE AND NOT AS EXAMPLES OF APPLICATIONS OF THEORETICAL FLUID MECHANICS. AREAS DISCUSSED INCLUDE: PROPERTIES OF WATER, LAWS OF FLUID MECHANICS, WATER PRESSURE, FLOW IN PIPES, PUMPS, SEEPAGE, OPEN CHANNEL FLOW, HYDRAULIC STRUCTURES, AND FLOW MEASUREMENTS. METRIC UNITS ARE USED THROUGHOUT THE TEXT. CONVERSION CHARTS AND MATHEMATICAL TABLES ARE INCLUDED IN THE APPENDICES FOR REFERENCE. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($15.95)

IRIS ACCESSION NUMBER: EW003225

ERIC ACCESSION NUMBER: ED158958

PUBLICATION DATE: AUG 76

TITLE: TOWARD CLEAN WATER: A GUIDE TO CITIZEN ACTION.

PERSONAL AUTHOR: OUTEN, RONALD, ED.; LAWSON, SIMPSON, ED.

INSTITUTION CODE: FGK19105

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL EDUCATION; *FEDERAL LEGISLATION; *FEDERAL STATE RELATIONSHIP; OCEAN ENGINEERING; *POLLUTION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; COMMUNITY FACILITIES; WATER QUALITY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 328P.

ISSUE: RIEJAN79

ABSTRACT: THIS GUIDE IDENTIFIES THE MAJOR OPPORTUNITIES FOR PARTICIPATION UNDER THE 1976 FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS FOR CITIZENS CONCERNED WITH THE IMPROVEMENT OF WATER QUALITY. THE BOOK IS AIMED PRIMARILY AT FULFILLING THE DIRECT NEEDS OF CITIZENS AT ALL LEVELS. IN ADDITION TO AN EXPLANATION OF THE LAW AND IMPLEMENTING REGULATIONS, THIS BOOK ANALYZES THE REASONS BEHIND CERTAIN DECISIONS AND POINTS OUT A VARIETY OF POLITICAL, ECONOMIC AND INSTITUTIONAL PRESSURES THAT HAVE RESULTED IN A GIVEN SET OF DECISIONS. THERE ARE ELEVEN APPENDICES AT THE END OF THE GUIDE. THEY INCLUDE A DISCUSSION OF PUBLIC PARTICIPATION IN WATER POLLUTION CONTROL, PREPARATION OF ENVIRONMENTAL IMPAC

STATEMENTS, PROGRAM GRANTS, PREPARATION OF MANAGEMENT PLANS, AND STATE PROGRAM ELEMENTS NECESSARY FOR PARTICIPATION IN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). (CS)

GRANT NUMBER: EPA-900442

AVAILABILITY: THE CONSERVATION FOUNDATION, 1717 MASSACHUSETTS AVENUE, N.W., 20036 ($8.00 PLUS 10% FOR POSTAGE AND HANDLING)

INSTITUTION NAME: CONSERVATION FOUNDATION, WASHINGTON, D.C.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003226

ERIC ACCESSION NUMBER: ED158965

PUBLICATION DATE: NOV 77

TITLE: INORGANIC ANALYSES IN WATER QUALITY CONTROL PROGRAMS. TRAINING MANUAL.

INSTITUTION CODE: BBB15838

DESCRIPTOR: CHEMICAL ANALYSIS; INSERVICE EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *POLLUTION; *POST SECONDARY EDUCATION; QUALITY CONTROL; SCIENCE EDUCATION; TEACHING GUIDES; *WATER POLLUTION CONTROL; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 160P.; FOR RELATED DOCUMENT, SEE SE 024 236; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEJAN79

ABSTRACT: THIS DOCUMENT IS A LECTURE/LABORATORY MANUAL DEALING WITH THE ANALYSIS OF SELECTED INORGANIC POLLUTANTS. THE MANUAL IS AN INSTRUCTIONAL AID FOR CLASSROOM PRESENTATIONS TO THOSE WITH LITTLE OR NO EXPERIENCE IN THE FIELD, BUT HAVING ONE YEAR (OR EQUIVALENT) OF COLLEGE LEVEL INORGANIC CHEMISTRY AND HAVING BASIC LABORATORY SKILLS. TOPICS INCLUDE: ACIDITY, ALKALINITY, HARDNESS, CHLORINE, TOTAL PHOSPHORUS, FLUORIDE, NITRATE AND NITRITE NITROGEN, TOTAL AND SUSPENDED SOLIDS, TURBIDITY AND SPECIFIC CONDUCTANCE, SAMPLE HANDLING, ACCURACY, PRECISION AND ERROR OF DATA, LABORATORY SAFETY PRACTICES, AND ELEMENTS OF QUALITY ASSURANCE PROGRAMS. (BB)

REPORT NUMBER: EPA-430/1-77-013

INSTITUTION NAME: OFFICE OF WATER PROGRAM OPERATIONS (EPA), CINCINNATI, OHIO. NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER.

IRIS ACCESSION NUMBER: EW003227

ERIC ACCESSION NUMBER: ED158966

PUBLICATION DATE: DEC 77

TITLE: ORGANIC ANALYSES IN WATER QUALITY CONTROL PROGRAMS. TRAINING MANUAL.

INSTITUTION CODE: BBB15838

DESCRIPTOR: CHEMICAL ANALYSIS; INSERVICE EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *POLLUTION; *POST SECONDARY EDUCATION; QUALITY CONTROL; SCIENCE EDUCATION; TEACHING GUIDES; *WATER POLLUTION CONTROL; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 194P.; FOR RELATED DOCUMENT, SEE SE 024 237

ISSUE: RIEJAN79

ABSTRACT: THIS DOCUMENT IS A LECTURE/LABORATORY MANUAL DEALING WITH THE ANALYSIS OF SELECTED ORGANIC POLLUTANTS. IT IS INTENDED FOR USE BY THOSE HAVING LITTLE OR NO EXPERIENCE IN THE FIELD, BUT HAVING ONE YEAR (OR EQUIVALENT) OF COLLEGE ORGANIC CHEMISTRY, AND HAVING BASIC LABORATORY SKILLS (VOLUMETRIC GLASSWARE, TITRATION, ANALYTICAL AND TRIP BALANCES). TOPICS INCLUDE: DISSOLVED OXYGEN, BIOCHEMICAL OXYGEN DEMAND, AMMONIA, NITRATES, NITRITES, CARBON ANALYSIS, CHEMICAL OXYGEN DEMAND, SURFACTANTS, OIL AND GREASE PHENOLICS, GAS CHROMATOGRAPHY, AND POLYCHLORINATED BIPHENYLS. (BB)

REPORT NUMBER: EPA-430/1-77-014

INSTITUTION NAME: OFFICE OF WATER PROGRAM OPERATIONS (EPA), CINCINNATI, OHIO. NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER.

IRIS ACCESSION NUMBER: EW003228

PUBLICATION DATE: FEB 77

TITLE: SPILL TECHNOLOGY NEWSLETTER. VOL. 1 - 1976.

DESCRIPTOR: CONFERENCES; *ENVIRONMENTAL INFLUENCES; LUBRICANTS; MANPOWER DEVELOPMENT; *POLLUTION; *TECHNOLOGY; *WATER POLLUTION CONTROL; *WORLD PROBLEMS; *OIL SPILLS

DESCRIPTIVE NOTE: 193P.

ABSTRACT: THIS PUBLICATION IS A COMPILATION OF ALL THE ISSUES OF THE BIMONTHLY NEWSLETTER ON SPILL TECHNOLOGY FOR 1976 PUBLISHED BY THE ENVIRONMENTAL PROTECTION SERVICE. TOPIC AREAS OF THIS VOLUME INCLUDE ACTIVITY REPORTS, ARCTIC OIL SPILLS, ECOLOGICAL EFFECTS AND IMPACT, RECOVERY/CONTAINMENT, SPILL INCIDENTS, AND TRAINING. AN INDEX OF ALL ARTICLES IS PROVIDED BASED ON A CUMULATIVE NUMBERING SYSTEM. (CS)

AVAILABILITY: ENVIRONMENTAL PROTECTION SERVICE, DEPT. OF THE ENVIRONMENT, OTTAWA KIA 1C8, ONTARIO, CANADA (NO PRICE QUOTED)

INSTITUTION NAME: ENVIRONMENTAL IMPACT CONTROL DIRECTORATE, CANADA.

IRIS ACCESSION NUMBER: EW003229

PUBLICATION DATE: JAN 78

TITLE: SPILL TECHNOLOGY NEWSLETTER. VOL. 2 - 1977.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; LUBRICANTS; MANPOWER DEVELOPMENT; *POLLUTION; *TECHNOLOGY; *WATER POLLUTION CONTROL; *WORLD PROBLEMS; *OIL SPILLS

DESCRIPTIVE NOTE: 298P.

ABSTRACT: THIS PUBLICATION IS A COMPILATION OF ALL THE ISSUES OF THE BIMONTHLY NEWSLETTER ON SPILL TECHNOLOGY FOR 1977 PUBLISHED BY THE ENVIRONMENTAL PROTECTION SERVICE. TOPIC AREAS OF THIS VOLUME INCLUDE ACTIVITY REPORTS, ARCTIC OIL SPILLS, ANALYSIS OF SPILLS, ECOLOGICAL EFFECTS AND IMPACT, RECOVERY/CONTAINMENT/EQUIPMENT, SPILL INCIDENTS, AND TRAINING. ALL ARTICLES ARE INDEXED ON THE BASIS OF A CUMULATIVE NUMBERING SYSTEM. (CS)

AVAILABILITY: ENVIRONMENTAL PROTECTION SERVICE, DEPT. OF FISHERIES AND THE ENVIRONMENT, OTTAWA, ONTARIO, CANADA KIA 1C8 (NO PRICE QUOTED)

INSTITUTION NAME: ENVIRONMENTAL IMPACT CONTROL DIRECTORATE, CANADA.

IRIS ACCESSION NUMBER: EW003230

PUBLICATION DATE: 78

TITLE: ELECTROTECHNOLOGY, VOL. 1: WASTEWATER TREATMENT AND SEPARATION METHODS.

PERSONAL AUTHOR: OUELLETTE, ROBERT P.; AND OTHERS

DESCRIPTOR: *CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; METALS; PATHOLOGY; POLLUTION; *POST SECONDARY EDUCATION; RECYCLING; *TECHNOLOGY; *WASTE DISPOSAL; WATER QUALITY; *WATER POLLUTION CONTROL; *ELECTROTECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 609P.

ABSTRACT: THIS VOLUME PROVIDES A STATE-OF-THE-ART SURVEY ON THE USES OF ELECTROTECHNOLOGY IN WASTEWATER TREATMENT AND SEPARATION. A SURVEY OF GENERAL PRINCIPLES IS FOLLOWED BY A DISCUSSION OF CURRENT AND FUTURE SPECIFIC APPLICATIONS. EACH APPLICATION IS EXAMINED IN TERMS OF MAJOR PRODUCERS AND USERS, REQUIRED EQUIPMENT, ADVANTAGES AND DISADVANTAGES, COST EFFECTIVENESS, ENERGY REQUIREMENTS, SAFETY MEASURES, AND RESEARCH INTO ALTERNATIVES. TOPICS DISCUSSED INCLUDE: ELECTRODIALYSIS, OSMOSIS, ULTRAFILTRATION, ULTRAVIOLET RADIATION, ELECTROMAGNETIC SEPARATION, MICROWAVE AND LASER. ACCESSORY MATERIAL, INCLUDING PATENTS AND SUPPLIERS OF EQUIPMENT, IS INCLUDED IN THE APPENDICES. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($39.95)

IRIS ACCESSION NUMBER: EW003231

PUBLICATION DATE: JUL 77

TITLE: HEAT TRANSFER AND FLUID FLOW DATA BOOKS: FLUID FLOW.

PERSONAL AUTHOR: KAMINSKI, DEBORAH A., ED.; AND OTHERS

DESCRIPTOR: *ENGINEERING EQUIPMENT; *HEAT TRANSFER; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; PHYSICAL DESIGN NEEDS; *PHYSICS; POST SECONDARY EDUCATION; RADIATION; *SCIENCE EDUCATION; *THERMODYNAMICS

DESCRIPTIVE NOTE: THE CURRENT PUBLICATION HAS APPROXIMATELY 200 PAGES. THE DATA IS PERIODICALLY UPDATED AND EXPANDED TO COVER ADDITIONAL TOPICS. SEE EW003232 FOR THE HEAT TRANSFER DATA BOOK.

ABSTRACT: THIS FLUID FLOW DATA BOOK AND THE COMPANION VOLUME ON HEAT TRANSFER, PROVIDE A CONVENIENT COLLECTION OF INFORMATION ON THOSE ASPECTS OF HEAT TRANSFER AND FLUID FLOW WHICH REQUIRE FREQUENT CONSIDERATION AND APPLICATION IN DESIGN AND DEVELOPMENT WORK. GENERALIZED PERFORMANCE RELATIONS, PARTICULARLY CORRELATIONS IN DEMENSIONLESS FORM, ARE THE MOST COMMON TYPE OF INFORMATION PRESENTED. THE EQUATIONS ARE NOT DIRECTED PRIMARILY TO DESIGN OF PARTICULAR PRODUCTS. TOPIC AREAS OF THIS VOLUME INCLUDE STRAIGHT AND CURVED DUCTS, CONTRACTING AND EXPANDING DUCTS, LINEAR AND ROTATING DRAG, AND FANS. EACH SECTION CONTAINS AN EXTENSIVE LIST OF REFERENCES ALTHOUGH ACCESS TO SOME IS LIMITED. (CS)

AVAILABILITY: GENERAL ELECTRIC CO., 120 ERIE BLVD., DEPT. 568, SCHENECTADY, NY 12305 ($25.00)

IRIS ACCESSION NUMBER: EW003232

PUBLICATION DATE: JUL 77

TITLE: HEAT TRANSFER AND FLUID FLOW DATA BOOKS: HEAT TRANSFER.

PERSONAL AUTHOR: KAMINSKI, DEBORAH A., ED.; AND OTHERS

DESCRIPTOR: *ENGINEERING; EQUIPMENT; *HEAT TRANSFER; *INSTRUCTIONAL MATERIALS; MATHEMATICS; *PHYSICS; PHYSICAL DESIGN NEEDS; POST SECONDARY EDUCATION; RADIATION; *SCIENCE EDUCATION; *THERMODYNAMICS

DESCRIPTIVE NOTE: THE CURRENT PUBLICATION HAS APPROXIMATELY 400 PAGES. THE DATA IS PERIODICALLY UPDATED AND EXPANDED TO COVER ADDITIONAL TOPICS. SEE EW003231 FOR FLUID FLOW DATA BOOK.

ABSTRACT: THIS HEAT TRANSFER DATA BOOK AND THE COMPANION VOLUME ON FLUID FLOW, PROVIDE A CONVENIENT COLLECTION OF INFORMATION ON THOSE ASPECTS OF FLUID FLOW AND HEAT TRANSFER WHICH REQUIRE FREQUENT CONSIDERATION AND APPLICATION IN DESIGN AND DEVELOPMENT WORK. GENERALIZED PERFORMANCE RELATIONS, PARTICULARLY CORRELATIONS IN DIMENSIONLESS FORM, ARE THE MOST COMMON TYPE OF INFORMATION PRESENTED. THE EQUATIONS ARE NOT DIRECTED PRIMARILY TO DESIGN OF PARTICULAR PRODUCTS. TOPIC AREAS OF THIS VOLUME INCLUDE FORCED AND FREE CONVECTION; VAPORIZATION AND CONDENSATION; COMBINED AND TRANSIENT HEAT FLOW; HEAT EXCHANGES; SOLID, LIQUID, AND GAS PROPERTIES; AND STANDARDS AND CONSTANTS. EACH SECTION CONTAINS AN EXTENSIVE LIST OF REFERENCES ALTHOUGH ACCESS TO SOME IS LIMITED. (CS)

AVAILABILITY: GENERAL ELECTRIC CO., 120 ERIE BLVD., DEPT. 568, SCHENECTADY, NY 12305 ($25.00)

IRIS ACCESSION NUMBER: EW003233

PUBLICATION DATE: JAN 78

TITLE: METHODS FOR MEASURING THE ACUTE TOXICITY OF EFFLUENTS TO AQUATIC ORGANISMS.

PERSONAL AUTHOR: PELTIER, WILLIAM

DESCRIPTOR: BIOLOGY; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *MEASUREMENT TECHNIQUES; *POLLUTION; *POST SECONDARY EDUCATION; SAMPLING; TOXICITY; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY; FISH; *EFFLUENTS

DESCRIPTIVE NOTE: 51P.

ABSTRACT: THIS REPORT DESCRIBES METHODS FOR THE MEASUREMENT OF THE ACUTE TOXICITY OF EFFLUENTS TO MICROINVERTEBRATES AND FISH. THE METHODS INCLUDE A SHORT-TERM, RANGE-FINDING AND LONG-TERM TEST TO DETERMINE THE LC 50 OR EC 50 OF WASTE. ALSO INCLUDED ARE GUIDELINES ON EFFLUENT SAMPLING AND HOLDING FACILITIES AND EQUIPMENT, DILUTION WATER, TEST SPECIES SELECTION AND HANDLING, AND DATA INTERPRETATION. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

IRIS ACCESSION NUMBER: EW003234

PUBLICATION DATE: JUN 78

TITLE: ECONOMIC IMPACT OF PROPOSED AMENDMENTS TO WATER POLLUTION REGULATIONS (R77-12): DOCKET A.

DESCRIPTOR: LEGISLATION; *SEWERS; STANDARDS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER STANDARDS; *ILLINOIS

DESCRIPTIVE NOTE: 110P. ORDER NO. PB 286 634

ABSTRACT: THE AMENDMENTS TO THE ILLINOIS WATER POLLUTION REGULATIONS FALL INTO THE FOLLOWING CATEGORIES: SEWER AND SEWAGE DEFINITION CHANGES, COMBINED SEWER REGULATION CHANGES, SECONDARY CONTACT WATER QUALITY STANDARD CHANGES, DILUTION RATIO DEFINITION, AND IMPLEMENTATION PLAN CHANGES. THE MAJOR BENEFIT OF THE PROPOSED AMENDMENTS WOULD BE TO CLARIFY THE EXISTING REGULATIONS AND THE INTENT OF THE ILLINOIS POLLUTION CONTROL BOARD RULES AND REGULATIONS. THIS CLARIFICATION WOULD AID IN THE ENFORCEMENT OF RULES AND REGULATIONS AND WOULD ALSO RESULT IN FEWER LITIGATIONS. MONETARY BENEFITS WOULD BE REALIZED AS A RESULT OF THE ELIMINATION OF VARIANCE REQUIREMENTS FOR COMBINED SEWER CONSTRUCTION AND FROM LESS STRINGENT EFFLUENT REQUIREMENTS. THE MAJOR COSTS OF THE PROPOSED AMENDMENTS WOULD BE RELATED TO THE CONTROL OF TOTAL DISSOLVED SOLIDS (TDS) TO ELIMINATE OCCASIONAL VIOLATIONS OF THE PROPOSED STANDARD AND TO THE CONTROL OF TOXIC SUBSTANCES. THE OCCASSIONAL TDS CONCENTRATIONS WHICH EXCEED 1000 MG/L DO NOT APPEAR TO BE DUE TO POINT SOURCE DISCHARGES. THE ENFORCEMENT OF THE LIMITATION ON TOXIC SUBSTANCES IS EXPECTED TO BE ON A CASE BY CASE BASIS AS THE NATURE AND CONCENTRATION OF TOXIC SUBSTANCES AND POTENTIAL PROBLEMS ARE IDENTIFIED. (AUTHOR/BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($6.50)

INSTITUTION NAME: HARZA ENGINEERING CO., CHICAGO, IL.

IRIS ACCESSION NUMBER: EW003236

ERIC ACCESSION NUMBER: ED159028

PUBLICATION DATE: JUL 73

TITLE: BIOLOGICAL FIELD AND LABORATORY METHODS FOR MEASURING THE QUALITY OF SURFACE WATERS AND EFFLUENTS. PROGRAM ELEMENT 1BA027.

PERSONAL AUTHOR: WEBER, CORNELIUS I., ED.

INSTITUTION CODE: BBB06755

DESCRIPTOR: BIOLOGICAL SCIENCES; *BIOLOGY; ENVIRONMENTAL TECHNICIANS; FIELD STUDIES; *LABORATORY TECHNIQUES; *SAMPLING; *STATISTICAL ANALYSIS; *WATER POLLUTION CONTROL; ZOOLOGY; ENVIRONMENTAL PROTECTION AGENCY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 196P.; CONTAINS OCCASIONAL SMALL, LIGHT AND BROKEN TYPE; PAGES 3-8 OF UNITS OF WEIGHT AND MEASURE MISSING FROM DOCUMENT PRIOR TO BEING SHIPPED TO EDRS

ISSUE: RIEJAN79

ABSTRACT: THIS ENVIRONMENTAL PROTECTION AGENCY MANUAL WAS DEVELOPED TO PROVIDE POLLUTION BIOLOGISTS WITH THE MOST RECENT METHODS FOR MEASURING THE EFFECTS OF ENVIRONMENTAL CONTAMINANTS ON FRESHWATER AND MARINE ORGANISMS. THE SECTIONS OF THIS MANUAL INCLUDE: (1) BIOMETRICS; (2) PLANKTON; (3) PERIPHYTON; (4) MACROPHYTON; (5) MACROINVERTEBRATES; (6) FISH; AND (7) BIOASSAY. EACH OF THESE SECTIONS IS DIVIDED UP INTO CHAPTERS. THE BIOMETRICS SECTION DEALS PRIMARILY WITH INTRODUCTORY STATISTICS. THE SECTION DISCUSSING PLANKTON COVERS SAMPLE COLLECTION, PRESERVATION, PREPARTION, ANALYSIS AND BIOMASS DETERMINATION. SAMPLE COLLECTION, PRESERVATION, ANALYSIS, AND PREPARATION FOR PERIPHYTON AND MACROPHYTON ARE COVERED IN THOSE RESPECTIVE SECTIONS. IN THE SECTION ON MACROINVERTEBRATES, SELECTION OF SAMPLING SITES, SAMPLING METHODS, AND DATA EVALUATION ARE DESCRIBED. ALSO IN THIS SECTION, A TAXONOMIC BIBLIOGRAPHY FOR THE MICROINVERTEBRATE GROUPS IS INCLUDED. IN THE FISH SECTION, SAMPLE COLLECTION, PRESERVATION AND ANALYSIS IS DISCUSSED AMONG OTHER THINGS. IN THE FINAL SECTION, BIOASSAY TECHNIQUES FOR PHYTOPLANKTON, PERIPHYTON, MACROINVERTEBRATES, AND FISH ARE DESCRIBED AND THE FLATHEAD MINNOW AND BROOK TROUT CHRONIC TESTS ARE INCLUDED. REFERENCES ARE GIVEN IN ALL OF THE ABOVE SECTIONS. (MR)

REPORT NUMBER: EPA-670/4-73-001

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO.

IRIS ACCESSION NUMBER: EW003237

PUBLICATION DATE: JUN 76

TITLE: COMPLETE WATERUSE: SYMBIOSIS AS A MEANS OF ABATEMENT FOR MULTI-MEDIA POLLUTION.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *ENGINEERING; INDUSTRY; LABORATORY PROCEDURES; POLLUTION; PUBLIC HEALTH; RESEARCH; *RECYCLING; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 628P.

ABSTRACT: THIS VOLUME PRESENTS A SERIES OF PAPERS FROM THE THIRD NATIONAL CONFERENCE ON WATER REUSE HELD IN 1976. THE PRESENTATIONS DISCUSS A VARIETY OF WAYS IN WHICH INDUSTRY, MUNICIPALITIES, AND AGRICULTURE CAN MUTUALLY WORK TOGETHER TO BENEFIT THE ENVIRONMENT AND ALL INVOLVED. TOPIC AREAS INCLUDE WASTEWATER REUSE, SEPARATION METHODS, MUNICIPAL PROBLEMS AND PROJECTS, HEALTH, AND INDUSTRIAL OPERATIONS SUCH AS POWER, ENERGY RECOVERY, COOLING TOWERS, COAL, AND FOOD PROCESSING. EACH PAPER CONTAINS A SUMMARY AND MOST PROVIDE A BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47TH ST., NEW YORK, NY 10017 ($55.00)

INSTITUTION NAME: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS.

IRIS ACCESSION NUMBER: EW003238

PUBLICATION DATE: 78

TITLE: TOXIC ORGANIC CHEMICALS: DESTRUCTION AND WASTE TREATMENT.

PERSONAL AUTHOR: HACKMAN, E. ELLSWORTH III

DESCRIPTOR: AIR POLLUTION CONTROL; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *INDUSTRY; *INSTRUCTIONAL MATERIALS; *ORGANIC CHEMISTRY; POLLUTION; POST SECONDARY EDUCATION; *PRODUCTION TECHNIQUES; *TECHNOLOGY; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 317P.

ABSTRACT: THE MAJOR PORTION OF THIS BOOK IS DEVOTED TO THE DESCRIPTION OF SEVERAL CURRENTLY PRACTICED AND PROMISING NEW TREATMENTS FOR WASTEWATERS, SOLID WASTES AND AIR POLLUTION EMISSIONS CONTAINING TOXIC AND REFRACTORY ORGANIC CHEMICALS. THE DESCRIPTIONS ARE BASED ON A NATIONWIDE SURVEY CONCERNED WITH INDUSTRIAL SOURCES OF POLLUTION, PRACTICAL CONTROL SOLUTIONS, POLLUTION CONTROL EQUIPMENT, AND NEW DEVELOPMENTAL METHODS. PART I OF THE TEXT IDENTIFIES AND DESCRIBES THE PROBLEMS OF TOXIC ORGANIC CHEMICAL POLLUTION, AND DISCUSSES THE VARIOUS APPROACHES TO SOLVING THESE PROBLEMS. PART II CATEGORIZES THE INDUSTRIAL SOURCES OF TOXIC ORGANIC CHEMICAL POLLUTION AND PRESENTS THE WASTE TREATMENT SYSTEMS FOUND MOST PRACTICAL AND EFFECTIVE INCLUDING AN EMPHASIS ON COST FACTORS. (CS)

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, MILL RD. AT GRAND AVE., PARK RIDGE, N.J. 07656 ($42.00)

IRIS ACCESSION NUMBER: EW003239

PUBLICATION DATE: 78

TITLE: NITROGEN CONTROL AND PHOSPHORUS REMOVAL IN SEWAGE TREATMENT.

PERSONAL AUTHOR: DE RENZO, D. J., ED.

DESCRIPTOR: BIOLOGICAL INFLUENCES; *CHEMISTRY; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; POLLUTION; *PRODUCTION TECHNIQUES; PUBLIC HEALTH; SANITATION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *SEWAGE TREATMENT; *NITROGEN; *PHOSPHORUS

DESCRIPTIVE NOTE: 704P.

ABSTRACT: PART I OF THIS BOOK PRESENTS THEORETICAL AND PROCESS DESIGN CRITERIA FOR THE IMPLEMENTATION OF NITROGEN CONTROL TECHNOLOGY IN MUNICIPAL WASTEWATER TREATMENT FACILITIES. DESIGN CONCEPTS ARE EMPHASIZED THROUGH EXAMINATION OF DATA FROM FULL-SCALE TO PILOT INSTALLATIONS. PART II DISCUSSES PHOSPHORUS REMOVAL METHODS THAT HAVE BEEN FOUND EFFECTIVE AND PRACTICAL FOR USE IN TREATMENT PLANTS. INCLUDED IN THE DISCUSSION OF EACH TREATMENT IS A DESCRIPTION OF THE METHOD, PERFORMANCE DATA, EQUIPMENT REQUIREMENTS, DESIGN PARAMETERS, AND COST ESTIMATES. A GLOSSARY OF SYMBOLS AND METRIC CONVERSION CHART ARE INCLUDED IN THE APPENDICES. (CS)

AVAILABILITY: NOYES DATA CORP., NOYES BUILDING, MILL RD AT GRAND AVE., PARK RIDGE, NJ 07656 ($32.00)

RIS ACCESSION NUMBER: EW003240

UBLICATION DATE: 77

ITLE: METHODS FOR DETERMINATION OF RADIOACTIVE SUBSTANCES N WATER AND FLUVIAL SEDIMENTS, BOOK 5, CHAPTER A5.

ERSONAL AUTHOR: THATCHER, L. L.; AND OTHERS

ESCRIPTOR: *CHEMICAL ANALYSIS; ENVIRONMENTAL INFLUENCES; EOLOGY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; OLLUTION; *POST SECONDARY EDUCATION; *RADIATION; SCIENTIFIC RESEARCH; SAFETY; *WATER RESOURCES; WATER OLLUTION CONTROL; CESIUM; TRITIUM; RADIUM

ESCRIPTIVE NOTE: 95P.

BSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF MANUALS WHICH ESCRIBE METHODS UTILIZED BY THE U.S. GEOLOGICAL SURVEY FOR LANNING AND EXECUTING WATER RESOURCES INVESTIGATIONS. THIS OLUME PRESENTS ANALYTICAL METHODS FOR DETERMINING OMPONENTS OF FISSION OR NEUTRON ACTIVATION PRODUCTS FOUND N WATER. EACH REPORT INCLUDES CONDITIONS FOR APPLICATION OF HE METHOD, A SUMMARY OF THE METHOD, INTERFERENCES, REQUIRED PPARATUS AND REAGENTS, PROCEDURES, CALCULATIONS, REPORTING, ND ESTIMATION OF PRECISION. TECHNIQUES FOR THE COLLECTION ND PRESERVATION OF WATER SAMPLES TO BE ANALYZED FOR ADIOACTIVITY ARE ALSO DISCUSSED. ADDITIONAL REFERENCES ARE ROVIDED WITH EACH METHOD. (CS)

VAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT RINTING OFFICE, WASHINGTON, D.C. 20402 ($16.00)

IRIS ACCESSION NUMBER: EW003241

UBLICATION DATE: OCT 78

ITLE: WATER TREATMENT PLANT DESIGN FOR THE PRACTICING NGINEER.

ERSONAL AUTHOR: SANKS, ROBERT L.

ESCRIPTOR: CHEMISTRY; *ENGINEERING; ENVIRONMENT; *FACILITY ESIGN; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; OLLUTION; PUBLIC HEALTH; *SANITATION; TECHNOLOGY; *WATER OLLUTION CONTROL; *WATER QUALITY; *WATER TREATMENT PLANTS

ESCRIPTIVE NOTE: 845P.

BSTRACT: THIS BOOK PROVIDES A PRACTICAL GUIDE FOR THE ESIGN OF WATER TREATMENT PLANTS. THE TEXT IS WRITTEN TO ELP THE CONSULTING ENGINEER BECOME MORE FAMILIAR WITH UP-O-DATE THEORY AND PRACTICE AND ASSIST IN DEVELOPING PECIFICATIONS FOR THE DESIGN OF TREATMENT PLANTS. TOPICS ISCUSSED INCLUDE PUBLIC HEALTH ASPECTS, CHEMICAL HANDLING ND FEEDING, DESIGN OF FLOCCULATION SYSTEMS, SUSPENDED OLIDS REMOVAL, ION EXCHANGE, LABORATORY DESIGN, ESTIMATING ATER SYSTEM COSTS, AND OPERATOR MANUALS AND TRAINING. A IST OF ABBREVIATIONS AND CONVERSION FACTORS IS INCLUDED IN HE APPENDICES. (CA)

VAILABILITY: ANN ARBOR SCIENCE PUBLISHERS INC., P. O. BOX 1425, ANN ARBOR, MI 48106 ($39.95)

IRIS ACCESSION NUMBER: EW003242

PUBLICATION DATE: SEP 78

TITLE: STORMWATER MANAGEMENT: QUANTITY AND QUALITY.

PERSONAL AUTHOR: WANIELISTA, MARTIN P.

DESCRIPTOR: COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; MANAGEMENT; *MATHEMATICAL MODELS; *NATURAL RESOURCES; POLLUTION; POST SECONDARY EDUCATION; *SANITATION; WATER QUALITY; *WATER POLLUTION CONTROL; *STORMWATER; *WASTE COLLECTION

DESCRIPTIVE NOTE: 383P.

ABSTRACT: THE MAJOR EMPHASIS OF THIS TEXT IS THE IDENTIFICATION AND MANAGEMENT OF NON-POINT SOURCE RUNOFF. IT INCORPORATES THE PRINCIPLES OF HYDROLOGY, HYDRAULICS, COMPREHENSIVE PLANNING AND ENVIRONMENTAL ENGINEERING. CHAPTER TOPICS INCLUDE DATA IDENTIFICATION AND COLLECTION, STATISTICAL DESCRIPTORS AND EXTREME EVENTS, FLOW ROUTING, STORMWATER MANAGEMENT ALTERNATIVES, MANAGEMENT MODELS FOR BOTH URBAN AND RURAL SITUATIONS, AND WATER QUALITY ASSESSMENT. STATISTICAL TABLES, CONVERSION UNITS, AND A GLOSSARY OF IMPORTANT TERMS ARE INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS INC., P. O. BOX 1425, ANN ARBOR, MI 48106 ($28.00)

IRIS ACCESSION NUMBER: EW003243

PUBLICATION DATE: 03-01-77

TITLE: CLAR-E-FIER.

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *GAMES; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; POLLUTION; SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

ABSTRACT: DESIGNED FOR UP TO SIX PLAYERS, THIS GAME UTILIZES THE OPERATIONAL PRINCIPLES OF A WASTEWATER TREATMENT FACILITY AS ITS MODEL. THE OBJECTIVE OF THE GAME IS TO BE DISCHARGED AS EFFLUENT FROM A CLARIFIER VIA ONE OF THREE POSSIBLE LOCATIONS. PLAYERS MOVE TOKENS ON A GAME BOARD AS INDICATED BY THE ROLL OF A DIE. WHEN OCCUPYING A SPACE MARKED OPERATION, DRYING BEDS, MATH, OR MANHOLE, PARTICIPANTS MUST SELECT A QUESTION CARD FROM THAT CATEGORY AND RESPOND AS INDICATED. THE GAME PACKET CONTAINS ALL NECESSARY MATERIALS INCLUDING THE CORRECT RESPONSE TO ALL QUESTION CARDS AND COMMON FORMULAS AND CONVERSION TABLES FOR THE MATH AND OPERATIONAL CATEGORIES. (CS)

AVAILABILITY: ENVIRONMENTAL TRAINING COORDINATION CENTER, 1440 EAST 35TH AVE., GARY, IN 46409 ($6.50)

INSTITUTION NAME: NATIONAL ENVIRONMENTAL TRAINING ASSOCIATION.

IRIS ACCESSION NUMBER: EW003244

PUBLICATION DATE: 76

TITLE: WATER SUPPLY PLANNING: A CASE STUDY AND SYSTEMS ANALYSIS.

PERSONAL AUTHOR: GREENBERG, MICHAEL R.; HORDON, ROBERT M.

DESCRIPTOR: CASE STUDIES; CONSERVATION; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL MODELS; *NATURAL RESOURCES; *POST SECONDARY EDUCATION; *URBAN AREAS; UTILITIES; *WATER RESOURCES; *WATER SUPPLY; *NEW JERSEY; *MANAGEMENT; *PLANNING

DESCRIPTIVE NOTE: 166P.

ABSTRACT: THIS STUDY IS CONCERNED WITH WATER SUPPLY PLANNING IN A DENSELY DEVELOPED, METROPOLITAN AREA. OF PARTICULAR CONCERN IS THE DICHOTOMY BETWEEN MANAGEMENT SYSTEMS AND ENVIRONMENTAL SYSTEMS. THE AUTHORS PRESENT PLAUSIBLE APPROACHES TO RESTRUCTURING THE SYSTEMS THROUGH REGIONAL WATER MANAGEMENT. SPECIFIC AREAS ADDRESSED INCLUDE: (1) THE NEED FOR REGIONAL WATER MANAGEMENT; (2) A MODEL OF THE NORTHEASTERN NEW JERSEY WATER SYSTEM; (3) WATER SUPPLY; (4) THE WATER SUPPLY NETWORK; (5) THE PRICE OF WATER AND THE REDUCTION OF DEMAND; AND (6) SIMULATING THE NEW JERSEY WATER NETWORK. (CS)

AVAILABILITY: RUTGERS UNIVERSITY, BLDG. 4051, P.O. BOX 38, KILMER CAMPUS, NEW BRUNSWICK, NJ 08903 ($10.00)

IRIS ACCESSION NUMBER: EW003245

PUBLICATION DATE: DEC 74

TITLE: EFFLUENT VARIABLITY FROM WASTEWATER TREATMENT PROCESSES AND ITS CONTROL.

PERSONAL AUTHOR: ENGLANDE, A. J. JR.; ECKENFELDER, W. WESLEY JR.

DESCRIPTOR: CHEMICAL REACTIONS; CONFERENCES; *ENVIRONMENTAL INFLUENCES; EQUIPMENT UTILIZATION; INDUSTRY; *MANUFACTURING; POLLUTION; *RESEARCH; TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; OPERATIONS (WASTEWATER); *EFFLUENTS; *MONITORING

DESCRIPTIVE NOTE: 262P.

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT AN INTERNATIONAL CONFERENCE ON EFFLUENT VARIABILITY IN 1974. A VARIETY OF PHYSICAL AND CHEMICAL TREATMENTS ARE DISCUSSED AS THEY AFFECT EFFLUENT QUALITY IN DOMESTIC AND INDUSTRIAL WASTEWATER TREATMENT FACILITIES. ADDITIONALLY, SEVERAL PAPERS DISCUSS THE CONCEPT OF REALISTIC EFFLUENT STANDARDS AND A STATE STRATEGY FOR COMPLIANCE MONITORING. EACH PAPER INCLUDES AN INTRODUCTION, TABLES AND GRAPHS OF EXPERIMENTAL DATA, AND A LIST OF REFERENCES. (CS)

AVAILABILITY: PERGAMON PRESS, INC., MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($16.00)

IRIS ACCESSION NUMBER: EW003246

PUBLICATION DATE: 73

TITLE: MERCURY POISONING, I.

DESCRIPTOR: *ANALYSIS; BIOLOGY; CHEMICAL ANALYSIS; ENVIRONMENT; *METABOLITES; *METALLIC PESTICIDES; PESTICIDES; PHYSIOLOGY (ANIMAL); *POISONS; *TOXICOLOGY; *MERCURY

DESCRIPTIVE NOTE: 162P.

ABSTRACT: PUBLISHED DURING 1970-1972, THE PAPERS IN THIS VOLUME CONSIDER THE FOLLOWING TOPICS: ANALYSIS AND DETECTION OF MERCURIC COMPOUNDS, OCCURRENCE OF MERCURY IN THE ENVIRONMENT AND IN LIVING ORGANISMS, HUMAN EXPOSURE TO MERCURY AND MERCURIC COMPOUNDS, AND METABOLISM OF MERCURIC COMPOUNDS. (BB)

AVAILABILITY: ARNO PRESS, DEPT. #F, P.O. BOX 978, EDISON, NJ 10017 ($19.00)

INSTITUTION NAME: MSS INFORMATION CORP.

IRIS ACCESSION NUMBER: EW003247

PUBLICATION DATE: 73

TITLE: MERCURY POISONING, II.

DESCRIPTOR: BIOLOGY; *CHEMICAL ANALYSIS; CHEMISTRY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *METABOLITES; MICROBIOLOGY; PESTICIDES; PHYSIOLOGY; *POISONS; *TOXICITY; TOXICOLOGY; *MERCURY

DESCRIPTIVE NOTE: 161P.

ABSTRACT: INCLUDED IN THIS MONOGRAPH ARE FOUR PAPERS ON METABOLISM OF MERCURIC COMPOUNDS AND FIFTEEN PAPERS ON THE TOXIC EFFECTS OF MERCURY. TOPICS INCLUDE THE REACTIONS OF MERCURIC DERIVATIVES WITH ENZYMES AND OTHER PROTEINS, REACTION OF MERCURY AND MERCURIC COMPOUNDS WITH NUCLEIC ACIDS, AND MERCURIC COMPOUNDS AS ANTIMICROBIAL AGENTS. ARTICLES ALSO DESCRIBE THE LATEST PROCEDURES FOR DETECTING TRACE LEVELS OF MERCURY IN VARIOUS ECOSYSTEMS. (AUTHOR/BB)

AVAILABILITY: ARNO PRESS, INC., DEPT #F, P.O. BOX 978, EDISON, NJ 10017 ($19.00)

INSTITUTION NAME: MSS INFORMATION CORP.

IRIS ACCESSION NUMBER: EW003248

PUBLICATION DATE: 73

TITLE: FRESH WATER POLLUTION I: BACTERIOLOGICAL AND CHEMICAL POLLUTANTS.

DESCRIPTOR: *CHEMISTRY; *DISEASES; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; NATURAL RESOURCES; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; RADIOLOGY; *RESEARCH; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 151P.

ABSTRACT: THIS PUBLICATION IS ONE IN A SERIES WHICH PRESENTS PUBLISHED RESEARCH PAPERS CONCERNED WITH CURRENT INFORMATION ON NEW DEVELOPMENTS OF FRESH WATER POLLUTION. TOPICAL AREAS INCLUDE DISCUSSIONS OF BACTERIOLOGICAL, CHEMICAL , THERMAL AND RADIO ACTIVE POLLUTANTS. APPLICATION OF THE LATEST TECHNICAL DEVISES FOR CONTROL OF POLLUTANTS IS ALSO DISCUSSED. (CS)

AVAILABILITY: ARNO PRESS, INC., DEPT #F, P.O. BOX 978, EDISON, NJ 10017 ($19.00)

INSTITUTION NAME: MSS INFORMATION CORP.

IRIS ACCESSION NUMBER: EW003249

PUBLICATION DATE: 73

TITLE: FRESH WATER POLLUTION, II: RADIOACTIVE POLLUTANTS.

DESCRIPTOR: CHEMISTRY; DISEASES; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; *RADIOLOGY; *RESEARCH; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 228P.

ABSTRACT: THIS PUBLICATION IS ONE IN A SERIES WHICH PRESENTS PUBLISHED RESEARCH PAPERS CONCERNED WITH CURRENT INFORMATION ON NEW DEVELOPMENTS OF FRESH WATER POLLUTION. TOPICAL AREAS INCLUDE DISCUSSIONS OF BACTEROLOGICAL, CHEMICAL, THERMAL AND RADIOACTIVE POLLUTANTS. APPLICATION OF THE LATEST TECHNICAL DEVICES FOR THE CONTROL OF POLLUTANTS IS ALSO DISCUSSED. (CS)

AVAILABILITY: ARNO PRESS INC., DEPT #F, P.O. BOX 978, EDISON, NJ 10017 ($19.00)

INSTITUTION NAME: MSS INFORMATION CORP.

IRIS ACCESSION NUMBER: EW003250

PUBLICATION DATE: 77

TITLE: PRINCIPLES OF WATER QUALITY CONTROL. 2ND ED.

PERSONAL AUTHOR: TIBBUTT, T. H. Y.

DESCRIPTOR: BIOCHEMISTRY; *CHEMICAL REACTIONS; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; RECYCLING; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 201P.

ABSTRACT: THE CHARACTERISTICS OF WATERS AND WASTEWATERS AND THE TREATMENT AND USE ARE THE FOCUS OF THIS BOOK. THE AUTHOR INCORPORATES BASIC ECOLOGICAL PRINCIPLES AND WATER POLLUTION PARAMETERS IN THE DISCUSSIONS OF PHYSICAL AND CHEMICAL TREATMENT OPERATIONS, ESPECIALLY AS THEY RELATE TO TERTIARY TREATMENT PROCESSES AND WATER RECLAMATION. SIMPLE ILLUSTRATIONS ARE USED TO CLARIFY THE TEXT MATERIAL. PROBLEMS WITH ANSWERS ARE INCLUDED SO THE READERS MAY CHECK THEIR UNDERSTANDING OF THE MATERIAL PRESENTED. (CS)

AVAILABILITY: PERGAMON PRESS, INC., MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY. 10523 ($11.00)

IRIS ACCESSION NUMBER: EW003251

PUBLICATION DATE: 77

TITLE: WASTE TREATMENT WITH POLYELECTROLYTES AND OTHER FLOCCULANTS.

PERSONAL AUTHOR: GUTCHO, SIDNEY

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *INDUSTRY; *ORGANIC CHEMISTRY; *PATENTS; POLLUTION; PRODUCTION TECHNIQUES; TECHNOLOGY; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER QUALITY; *FLOCCULANTS; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 371P.

ABSTRACT: THE INFORMATION IN THIS BOOK IS BASED ON U.S. PATENTS ISSUED SINCE THE LATE SIXTIES THAT DEAL WITH POLYELECTROLYTES AND OTHER FLOCCULANTS SUITABLE FOR WASTE TREATMENT. TOPICAL AREAS INCLUDE CLARIFICATION OF WATER; SEWAGE TREATMENT; APPLICATIONS IN ORE AND OIL, PULP AND PAPER, AND SUGAR REFINING INDUSTRIES; DIVERSE APPLICATIONS; AND OTHER FLOCCULATING REAGENTS BESIDES POLYELECTROLYTES. THE TABLE OF CONTENTS IS ORGANIZED TO SERVE AS A SUBJECT INDEX. OTHER INDEXES BY INVENTOR, PATENT NUMBER AND COMPANY PROVIDE A CROSS-REFERENCE TO THE INFORMATION WITHIN THE TEXT. (CS)

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656 ($39.00)

IRIS ACCESSION NUMBER: EW003252

PUBLICATION DATE: 76

TITLE: COMMERICAL ORGANIC FLOCCULANTS.

PERSONAL AUTHOR: VOSTRCIL, JOSEPH; JURACKA, FRANTISEK

DESCRIPTOR: *CHEMICAL REACTIONS; ENVIRONMENTAL INFLUENCES; *MANUALS; *ORGANIC CHEMISTRY; POLLUTION; PUBLIC HEALTH; TECHNOLOGY; *WATER POLLUTION CONTROL; *WATER RESOURCES; *FLOCCULANTS; *WATER TREATMENT

DESCRIPTIVE NOTE: 521P.

ABSTRACT: THIS BOOK PRESENTS IN TABULAR FORM THE COMMERCIAL SOURCES, AVAILABILITY, AND MAJOR APPLICATIONS OF ORGANIC FLOCCULANTS ON A WORLDWIDE BASIS. THIS INCLUDES DATA ON CHEMICAL COMPOSITION, PATENT REVIEWS, AND A VERY COMPLETE LISTING OF TRADEMARKS, GENERIC, AND CHEMICAL NAMES. (CS)

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656 ($24.00)

IRIS ACCESSION NUMBER: EW003253

PUBLICATION DATE: 76

TITLE: FIXED BIOLOGICAL SURFACES - WASTEWATER TREATMENT. THE ROTATING BIOLOGICAL CONTACTOR.

PERSONAL AUTHOR: ANTONIE, RONALD L.

DESCRIPTOR: *BIOLOGY; *COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; MANAGEMENT; POLLUTION; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *BIOLOGICAL CONTACTOR PROCESSES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 200P.

ABSTRACT: THIS BOOK TRACES THE DEVELOPMENT AND USE OF FIXEDFILM TREATMENT SYSTEMS, EMPHASIZING THE ROTATING BIOLOGICAL CONTACTOR PROCESS. PROCESS DEVELOPMENT AND DESIGN CRITERIA FOR THE ROTATING BIOLOGICAL CONTACTOR ARE PRESENTED FOR TREATMENT OF DOMESTIC AND A WIDE RANGE OF INDUSTRIAL WASTES. THE REQUIREMENTS FOR NITRIFICATION AND DENITRIFICATION ARE ALSO DISCUSSED ALONG WITH DESIGN CRITERIA TO MEET THESE REQUIREMENTS. CURRENT CAPITAL AND OPERATING COSTS ARE ALSO PRESENTED TO PERMIT COMPARISON WITH ALTERNATIVE SYSTEMS OF TREATMENT. (CS)

AVAILABILITY: CRC PRESS, 18901 CRANWOOD PARKWAY, CLEVELAND, OH 44128 ($40.95)

IRIS ACCESSION NUMBER: EW003254

PUBLICATION DATE: 76

TITLE: ANALYSIS OF GROUNDWATER FLOW.

PERSONAL AUTHOR: RAUDKIVI, A. J.; CALLANDER, R. A.

DESCRIPTOR: *ENGINEERING; ENVIRONMENTAL TECHNICIANS; *GEOLOGY; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; MATHEMATICS; *MECHANICS (PHYSICS); NATURAL RESOURCES; *POST SECONDARY EDUCATION; *WATER RESOURCES; *GROUNDWATER

DESCRIPTIVE NOTE: 214P.

ABSTRACT: THIS MONOGRAPH PROVIDES AN INTRODUCTION TO THE ANALYSIS OF GROUNDWATER FLOW. THE BROAD FIELD OF THE PHYSICS OF FLOW THROUGH POROUS MEDIA IS SURVEYED BRIEFLY TO GIVE A PERSPECTIVE VIEW OF THE PROBLEMS, BUT THE BULK OF THE BOOK IS DEVOTED TO SIMPLE ANALYTICAL TECHNIQUES. EMPHASIS IS ON THE POTENTIAL FLOW ANALOGY AND THE USE OF MORE ADVANCED MATHEMATICAL TECHNIQUES IS AVOIDED. (AUTHOR/CS)

AVAILABILITY: HALSTED PRESS, DIV. OF JOHN WILEY & SONS INC., ONE WILEY DR., SOMERSET, NJ 08873 ($22.50)

IRIS ACCESSION NUMBER: EW003255

PUBLICATION DATE: 77

TITLE: HYDRAULIC ANALYSIS OF UNSTEADY FLOW IN PIPE NETWORKS.

PERSONAL AUTHOR: FOX, J. A.

DESCRIPTOR: CALCULATION; *COMPUTER PROGRAMS; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; PLUMBING; TECHNOLOGY; *WATER RESOURCES; PIPES (WATER); *FLOW MEASUREMENT

DESCRIPTIVE NOTE: 216P.

ABSTRACT: DIFFERENT METHODS OF ANALYZING THE FLOW BEHAVIOR THAT OCCUR IN PIPE NETWORKS ARE DESCRIBED IN THIS TEXT. DETAILED ATTENTION IS GIVEN TO THE METHODS OF DEALING WITH BOUNDARY CONDITIONS SUCH AS RESERVOIRS, JUNCTIONS, VALVES, AIR VESSELS AND SURGE TANKS, AS WELL AS A VARIETY OF PUMPS. THE IMPORTANCE OF INCLUDING WAVE SPEED VARIATION IN CALCULATIONS IS ALSO EMPHASIZED. A METHOD OF PROGRAMMING A COMPUTER TO HANDLE ANY PIPE NETWORK IS OUTLINED. (CS)

AVAILABILITY: HALSTED PRESS, DIV. OF JOHN WILEY & SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($27.50)

IRIS ACCESSION NUMBER: EW003256

PUBLICATION DATE: 77

TITLE: WATER POLLUTION TECHNOLOGY.

PERSONAL AUTHOR: BLACK, JOHN A.

DESCRIPTOR: CHEMISTRY; ECOLOGY; *ENVIRONMENTAL INFLUENCES; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; MICROBIOLOGY; *NATURAL RESOURCES; *OCEANOLOGY; POLLUTION; TECHNOLOGY; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 260P.

ABSTRACT: THIS BOOK PRESENTS INFORMATION ON MARINE AND FRESHWATER SYSTEMS WITH AN EMPHASIS ON THE SOURCES AND CONSEQUENCES OF WATER POLLUTION. IN ADDITION TO A THOROUGH DISCUSSION OF THE HYDROLOGIC CYCLE THE AUTHOR ALSO PRESENTS DETAILED INFORMATION ON FRESHWATER LENTIC AND LOTIC ENVIRONMENTS AND THE INTERRELATIONSHIPS OF INDIVIDUAL SYSTEMS OF THE MARINE ENVIRONMENTS. CULTURAL, BIOLOGICAL, AND PHYSICAL CONSEQUENCES OF POLLUTION ARE PRESENTED AS WELL AS TREATMENT METHODS ALTERNATIVE SOLUTIONS. SUGGESTED READINGS AND QUESTIONS ARE FOUND AT THE END OF EACH CHAPTER. (CS)

AVAILABILITY: RESTON PUBLISHING CO., INC., 11480 SUNSET HILLS, RESTON, VA 22090 ($14.95)

IRIS ACCESSION NUMBER: EW003257

PUBLICATION DATE: 76

TITLE: VILLAGE WATER SUPPLY: ECONOMICS AND POLICY IN THE DEVELOPING WORLD.

PERSONAL AUTHOR: SAUNDERS, ROBERT J., WARFORD, JEREMY J.

DESCRIPTOR: *DEVELOPING NATIONS; ECONOMIC DEVELOPMENT; *ENVIRONMENTAL INFLUENCES; HEALTH; LIVING STANDARDS; POLLUTION; *PUBLIC HEALTH; *SANITATION; *TECHNOLOGICAL ADVANCEMENT; WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 279P.

ABSTRACT: THIS BOOK EXAMINES THE WIDE RANGE OF PHYSICAL, SOCIAL, AND ECONOMIC FACTORS WHICH ARE INVOLVED IN IMPROVING THE ADEQUACY OF WATER SUPPLY AND SANITATION IN DEVELOPING NATIONS IN THE COMING YEARS. THE TOPICS DISCUSSED INCLUDE THE PROBLEMS OF WATER SUPPLY AND SANITATION, THE RELATIONSHIP BETWEEN WATER SUPPLY AND WATER BORNE DISEASE, THE EFFECTS OF WATER SUPPLY ON PRODUCTIVITY AND DEVELOPMENT, STRATEGIES FOR PROGRAM PLANNING AND DEVELOPMENT, AND SPECIAL PROBLEMS OF OPERATION AND MAINTENANCE. THE FINAL CHAPTER CONTAINS A SUMMARY OF STUDY FINDINGS AND LISTS RECOMMENDATIONS FOR IMPROVING RURAL WATER SUPPLIES AND SANITATION. (CS)

AVAILABILITY: THE JOHN HOPKINS UNIV. PRESS, HOMEWOOD, BALTIMORE, MD 21218 ($6.00)

IRIS ACCESSION NUMBER: EW003258

PUBLICATION DATE: 74

TITLE: ATOMIC SPECTROMETRIC ANALYSIS OF HEAVY-METAL POLLUTANTS IN WATER.

PERSONAL AUTHOR: BURRELL, DAVID C.

DESCRIPTOR: *ANALYTICAL CHEMISTRY; CHEMICAL REACTIONS; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *METALS; POLLUTION; *POST SECONDARY EDUCATION; RADIATION; *SPECTROMETRY; TECHNOLOGY; *WATER RESOURCES; *WATER POLLUTION CONTROL; *HEAVY METALS

DESCRIPTIVE NOTE: 331P.

ABSTRACT: THIS BOOK ADDRESSES ATOMIC SPECTROMETRIC EVALUATION OF THE DISTRIBUTION OF HEAVY METALS IN NATURAL BODIES OF WATER. CONSIDERATION OF THE ATOMIC ABSORPTION MODE OF ANALYSIS DOMINATES THE DISCUSSION, BUT THE INTERRELATIONSHIP OF ABSORPTION, FLUORESCENCE, AND EMISSION IS ALSO EMPHASIZED. THE AUTHOR PROVIDES AN INTRODUCTION TO NATURAL WATER SYSTEMS IN THE FIRST CHAPTER. FOLLOWING CHAPTERS OUTLINE THE COLLECTION AND ANALYSIS PROCEDURES INCLUDING: (1) THE SAMPLE; (2) PRE-ANALYSIS CHEMISTRY; (3) RADIATION DETECTION; (4) SAMPLE ATOMIZATION; (5) INTERFERENCES; AND (6) DATA. EACH CHAPTER INCLUDES AN EXTENSIVE LIST OF REFERENCES. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($24.50)

IRIS ACCESSION NUMBER: EW003259

PUBLICATION DATE: 75

TITLE: WATER QUALITY PARAMETERS.

DESCRIPTOR: BIOLOGY; *CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; LAND USE; NATURAL RESOURCES; MEASUREMENT TECHNIQUES; *POLLUTION; POST SECONDARY EDUCATION; *SCIENTIFIC RESEARCH; *WATER POLLUTION CONTROL; *WATER QUALITY; *MONITORING

DESCRIPTIVE NOTE: 580P. A SYMPOSIUM COSPONSORED BY THE AMERICAN SOCIETY FOR TESTINGAND MATERIALS AND THE CANADA CENTRE FOR INLAND WATERS.

ABSTRACT: THIS VOLUME CONTAINS SELECTED PAPERS PRESENTED AT A SYMPOSIUM ON WATER QUALITY PARAMETERS SPONSORED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS IN 1973. THE PAPERS ARE GROUPED INTO FIVE SECTIONS: INORGANIC ANALYSIS, ORGANIC ANALYSIS, CONTINUOUS MONITORING AND REMOTE SENSING, PARAMETER SELECTION, AND BIOLOGICAL ANALYSIS. EACH PAPER INCLUDES AN ABSTRACT, A LIST OF KEY TERMS, AND AN EXTENSIVE BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE ST., PHILADELPHIA, PA 19103 ($29.50)

INSTITUTION NAME: AMERICAN SOCIETY FOR TESTING AND MATERIALS.; CANADA CENTRE FOR INLAND WATERS.

IRIS ACCESSION NUMBER: EW003260

PUBLICATION DATE: 77

TITLE: PLANNING OF WATER QUALITY SYSTEMS.

PERSONAL AUTHOR: WHIPPLE, WILLIAM JR.

DESCRIPTOR: CHEMISTRY; ECONOMICS; *ENVIRONMENTAL INFLUENCES; INDUSTRY; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POLLUTION; *POST SECONDARY EDUCATION; REGIONAL PLANNING; *URBAN ENVIRONMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 236P.

ABSTRACT: THIS BOOK DISCUSSES THE CONFLICTING ENVIRONMENTAL AND ECONOMIC INTERESTS ASSOCIATED WITH THE NATIONAL WATER POLLUTION CONTROL EFFORT. THE TEXT PROVIDES INFORMATION ON NEW SCIENTIFIC DEVELOPMENTS, APPLIES SOCIAL AND ECONOMIC CRITERIA TO POLICY REVIEW, INDICATES HOW PRESENT PLANNING APPROACHES SHOULD BE IMPROVED, AND POINTS OUT WASTE AND AREAS OF CONFUSION. CHAPTER TOPICS INCLUDE THE ENVIRONMENTAL QUALITY OBJECTIVE, URBAN RUNOFF AND NONPOINT SOURCES, *PRINCIPLES OF WATER QUALITY PLANNING, CONTROL IN OTHER* COUNTRIES, CONTROL STRATEGY, AND COMBINED PLANNING. A GLOSSARY AND CHAPTER BIBLIOGRAPHY ARE CONTAINED IN THE APPENDIX. (CS)

AVAILABILITY: LEXINGTON BOOKS, 125 SPRING ST., LEXINGTON, MA 02173 ($20.00)

IRIS ACCESSION NUMBER: EW003261

PUBLICATION DATE: AUG 78

TITLE: LAND APPLICATION OF WASTEWATER AND STATE WATER LAW: STATE ANALYSIS, VOL II.

PERSONAL AUTHOR: LARGE, DONALD W.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEGISLATION; NATURAL RESOURCES; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *LAND APPLICATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 199P. ORDER NO. PB 286 975; FOR VOLUME I SEE EW003058

ABSTRACT: THIS REPORT PROVIDES AN IN-DEPTH ANALYSIS OF THE WATER RIGHTS LAW IN SEVERAL STATES APPLICABLE TO LAND APPLICATION OF WASTE WATER. FOR EACH STATE, AN ANALYSIS IS MADE OF THE LAWS CONCERNED WITH NATURAL WATER COURSES, SURFACE WATERS, AND GROUNDWATER. AN IDENTIFICATION IS MADE OF THOSE PARTICULAR ASPECTS OF THE LAW RELATING TO EACH TYPE OF WATER THAT MAY INFLUENCE TREATMENT SYSTEM DESIGN AND OPERATION. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.00)

INSTITUTION NAME: ROBERT S. KERR ENVIRONMENTAL RESEARCH LAB.

IRIS ACCESSION NUMBER: EW003262

PUBLICATION DATE: 76

TITLE: BIOLOGICAL MONITORING OF WATER AND EFFLUENT QUALITY.

PERSONAL AUTHOR: CAIRNS, JOHN JR.; AND OTHERS

DESCRIPTOR: *BIOLOGY; *ENVIRONMENTAL INFLUENCES; FIELD STUDIES; *INSTRUCTIONAL MATERIALS; *LABORATORY METHODS; MICROBIOLOGY; POLLUTION; *POST SECONDARY EDUCATION; *SCIENTIFIC RESEARCH; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER RESOURCES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *MONITORING; *EFFLUENTS

DESCRIPTIVE NOTE: 246P. A SYMPOSIUM SPONSORED BY ASTM COMMITTEE D-19 ON WATER AND THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, BLACKSBURG, VA.; NOV. 2-4, 1975

ABSTRACT: THIS VOLUME PROVIDES A COLLECTION OF PAPERS PRESENTED AT A SYMPOSIUM SPONSORED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS IN 1975. THE PRIMARY PURPOSE OF THIS BOOK IS TO PROVIDE A BASIC FOUNDATION OF INFORMATIONAL MATERIAL ON BIOLOGICAL MONITORING. EACH PAPER CONTAINS AN ABSTRACT, A LIST OF KEY WORDS, AND AN EXTENSIVE BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE ST., PHILADELPHIA, PA 19103 ($24.25)

IRIS ACCESSION NUMBER: EW003263

PUBLICATION DATE: 77

TITLE: SENSIBLE SLUDGE: A NEW LOOK AT WASTED NATURAL RESOURCES.

PERSONAL AUTHOR: GOLDSTEIN, JEROME

DESCRIPTOR: *AGRICULTURE; *ECOLOGY; ECONOMICS; ENVIRONMENT; HEAVY METALS; *LAND APPLICATION; LAND USE; NATURAL RESOURCES; SAFETY; *SLUDGE; *SOIL APPLICATION; URBAN STUDIES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 184P.

ABSTRACT: THIS BOOK CONCERNS THE LAND APPLICATION OF SEWAGE SLUDGE. INCLUDED ARE CHAPTERS ON AMERICA'S HISTORY OF USING CITY WASTES ON THE FARM, HOW TO COMPOSTE SEWAGE SLUDGE, EXAMPLES OF SUCCESSFUL FARMING WITH SLUDGE, THE USE OF SLUDGE TO RECLAIM STRIP MINES, WORN OUT LANDS, AND URBAN SOIL, MARKETING AND DISTRIBUTION OF SLUDGE BASED FERTILIZERS, CHICAGO'S PROGRAM FOR RECLAIMING LAND, SAFETY OF SEWAGE SLUDGE, AND PUBLIC ATTITUDES AND LEGAL ASPECTS OF USING SLUDGE. APPENDED ARE A GLOSSARY, BIBLIOGRAPHY, AND ARTICLES ON HOW SEWAGE TREATMENT PLANTS OPERATE AND CURRENT ATTEMPTS TO LIMIT HEAVY METAL CONTENTS IN SLUDGE. (BB)

AVAILABILITY: RODALE PRESS, 33 EAST MINOR ST., EMMAUS, PA 18049 ($5.95)

IRIS ACCESSION NUMBER: EW003264

PUBLICATION DATE: 78

TITLE: 1978 ANNUAL BOOK OF ASTM STANDARDS, PART 31: WATER.

DESCRIPTOR: BIOLOGY; CHEMISTRY; ENGINEERING; *ENVIRONMENTAL INFLUENCES; HYDRAULICS; *LABORATORY PROCEDURES; NATURAL RESOURCES; *ORGANIC CHEMISTRY; *STANDARDS; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES; *SAMPLING; *WATER ANALYSIS

DESCRIPTIVE NOTE: 1232P.

ABSTRACT: THIS VOLUME IS ONE OF A SERIES PUBLISHED ANNUALLY BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS WHICH PRESENTS THE RECOGNIZED STANDARDS FOR MATERIALS, PRODUCTS, SYSTEMS AND SERVICES. THIS PARTICULAR VOLUME IS CONCERNED WITH THE STUDY OF WATER AND THE STANDARDIZATION OF TERMINOLOGY AND METHODS FOR (1) SAMPLING AND ANALYSIS OF WATER, WATERBORNE MATERIALS AND WASTES, AND WATER-FORMED DEPOSITS; (2) THE DETERMINATION OF THE STRUCTURE AND CONDITION OF COMMUNITIES OF INDIGENOUS AND OTHER AQUATIC ORGANISMS; (3) SURFACE WATER HYDRAULICS; (4) THE DETERMINATION OF MATERIALS USED TO MODIFY WATER CHARACTERISTICS; AND (5) THE DETERMINATION OF THE CORROSIVITY OR DEPOSIT-FORMING PROPERTIES OF WATER. (CS)

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE ST., PHILADELPHIA, PA 19103 ($35.00)

INSTITUTION NAME: AMERICAN SOCIETY FOR TESTING AND MATERIALS.

IRIS ACCESSION NUMBER: EW003265

PUBLICATION DATE: 73

TITLE: BIOLOGICAL METHODS FOR THE ASSESSMENT OF WATER QUALITY.

PERSONAL AUTHOR: CAIRNS, JOHN JR.; DICKSON, K. L.

DESCRIPTOR: BIOLOGY; CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *FIELD STUDIES; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; MICROBIOLOGY; NATURAL RESOURCES; *POLLUTION; *POST SECONDARY EDUCATION; *SCIENTIFIC RESEARCH; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 256P.

ABSTRACT: THIS VOLUME REPRESENTS A COLLECTION OF PAPERS PRESENTED AT A SYMPOSIUM SPONSORED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS IN 1972. THE TEXT PRESENTS CONSIDERATIONS INVOLVED IN MAKING BIOLOGICAL ASSESSMENTS OF WATER QUALITY, DEVELOPING WATER POLLUTION MONITORING PROGRAMS, AND ASSESSING THE EFFECTS OF WASTE DISCHARGES IN THE AQUATIC ENVIRONMENT. THE PAPERS DISCUSS THE USE OF FISH, ALGAE, AQUATIC INVERTEBRATES, BACTERIA, AND BIOASSAYS IN THE ASSESSMENT OF POLLUTION. EACH PAPER INCLUDES AN ABSTRACT, LIST OF KEY TERMS, AND AN EXTENSIVE BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE ST., PHILADELPHIA, PA 19103 ($16.25)

IRIS ACCESSION NUMBER: EW003266

PUBLICATION DATE: 77

TITLE: AQUAMETRY, PART I: A TREATISE ON METHODS FOR THE DETERMINATION OF WATER, 2ND EDITION.

PERSONAL AUTHOR: MITCHELL, JOHN JR.; SMITH, DONALD M.

DESCRIPTOR: BIOLOGY; *CHEMICAL ANALYSIS; CHEMISTRY; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 632P.

ABSTRACT: THIS VOLUME IS THE FIRST IN A SERIES WHICH PRESENTS THE METHODS AVAILABLE FOR WATER ANALYSIS FROM TRACES TO MAJOR CONCENTRATIONS IN GASES, LIQUIDS, AND SOLIDS. THE METHODS DETAILED ARE HELPFUL IN DETERMINING MOISTURE IN THE ATMOSPHERE, LIVING MATTER, INDUSTRIAL AND BIOLOGICAL PROCESSES AND AGRICULTURE. FOLLOWING THE INTRODUCTORY CHAPTER ON THE PROPERTIES OF WATER, THE TEXT DISCUSSES A VARIETY OF TECHNIQUES AND METHODS INCLUDING CHEMICAL, THERMAL, SEPARATION, INFRARED SPECTROPHOTOMETRIC, NUCLEAR MAGNETIC RESONANCE, RADIOCHEMICAL, AND PHYSICAL. EACH CHAPTER CONTAINS AN EXTENSIVE BIBLIOGRAPHY. (CS)

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($29.95)

IRIS ACCESSION NUMBER: EW003267

PUBLICATION DATE: 76

TITLE: FACETS OF HYDROLOGY.

PERSONAL AUTHOR: RODDA, JOHN C.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *GEOLOGY; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; LEGISLATION; NATURAL RESOURCES; *PHYSICAL SCIENCES; POLLUTION; POST SECONDARY EDUCATION; *RESEARCH; *RESEARCH METHODOLOGY; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 368P.

ABSTRACT: THIS BOOK IS A COLLECTION OF CHAPTERS WRITTEN BY EXPERTS IN THE FIELD OF HYDROLOGY. THE TEXT DISCUSSES A VARIETY OF NEW RESEARCH PROJECTS, METHODS AND TECHNIQUES OF IMPORTANCE TO HYDROLOGISTS. TOPICS INCLUDE HYDROLOGICAL MAPPING, REMOTE SENSING, SNOW AND ICE, NEW METHODS OF RIVER GAUGING, INFILTRATION, SOLUTE TRANSPORT IN GROUNDWATER SYSTEMS, LAW RELATING TO WATER, AND INTERNATIONAL ASPECTS OF HYDROLOGY. EACH CHAPTER INCLUDES A COMPREHENSIVE LIST OF REFERENCES. (CS)

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 (19.50)

IRIS ACCESSION NUMBER: EW003268

PUBLICATION DATE: 75

TITLE: A TREATISE ON LIMNOLOGY, VOL. I, PART 1: GEOGRAPHY AND PHYSICS OF LAKES.

PERSONAL AUTHOR: HUTCHINSON, G. EVELYN

DESCRIPTOR: *BIOLOGY; CHEMICAL EQUILIBRIUM; *EARTH SCIENCE; ECOLOGY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LIMNOLOGY; NATURAL RESOURCES; OPTICS; *POST SECONDARY EDUCATION; *SCIENTIFIC RESEARCH; THERMAL ENVIRONMENT; *WATER RESOURCES; *LAKES

DESCRIPTIVE NOTE: 677P. TWO-BOOK SET (EW003268 AND EW003269) PURCHASED AS A UNIT ($22.75)

ABSTRACT: THIS BOOK AND ITS COMPANION VOLUME PROVIDE AN ACCOUNT OF THE EVENTS CHARACTERISTICALLY OCCURRING IN LAKES. THIS FIRST PART OF VOLUME I DISCUSSES THE GEOGRAPHICAL AND PHYSICOCHEMICAL LIMNOLOGY ASSOCIATED WITH LAKE DEVELOPMENT. TOPICS INCLUDE THE ORIGIN OF LAKE BASINS, THE PROPERTIES OF WATER, THE HYDROLOGICAL CYCLE AND THE WATER BALANCE OF LAKES, HYDROMECHANICS, AND THE OPTICAL AND THERMAL PROPERTIES OF LAKES. A BIBLIOGRAPHY, AN INDEX OF LAKES, AND AN INDEX OF ORGANISMS ARE INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: JOHN WILEY & SONS, 1 WILEY DR., SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW003269

PUBLICATION DATE: 75

TITLE: A TREATISE ON LIMNOLOGY, VOL. I, PART 2: CHEMISTRY OF LAKES.

PERSONAL AUTHOR: HUTCHINSON, G. EVELYN

DESCRIPTOR: *BIOLOGY; CHEMICAL EQUILIBRIUM; *EARTH SCIENCE; ECOLOGY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LIMNOLOGY; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *SCIENTIFIC RESEARCH; *WATER RESOURCES; LAKES

DESCRIPTIVE NOTE: 474P. TWO-BOOK SET (EW003268 AND EW003269) PURCHASED AS A UNIT ($22.75)

ABSTRACT: THIS BOOK AND ITS COMPANION VOLUME PROVIDE AN ACCOUNT OF THE EVENTS CHARACTERISTICALLY OCCURRING IN LAKES. THIS SECOND PART OF VOLUME I DISCUSSES LIMNOBIOLOGY AND THE ECOLOGICAL, TYPOLOGICAL, AND STRATIGRAPHIC PROBLEMS OF LAKE DEVELOPMENT. TOPICS INCLUDE OXYGEN IN LAKE WATERS, REDOX POTENTIAL AND THE IRON CYCLE, PHOSPHORUS AND SULFUR CYCLES IN LAKE WATERS, AND ORGANIC MATTER. A BIBLIOGRAPHY, INDEX OF LAKES, AND INDEX OF ORGANISMS ARE INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: JOHN WILEY & SONS, 1 WILEY DR., SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW003271

PUBLICATION DATE: JAN 78

TITLE: FIELD MANUAL FOR PERFORMANCE EVALUATION AND TROUBLESHOOTING AT MUNICIPAL WASTEWATER TREATMENT FACILITIES.

PERSONAL AUTHOR: CULP, GORDON L.; HEIM, NANCY FOLKS

DESCRIPTOR: *EQUIPMENT; *EVALUATION; *FACILITIES; *MANAGEMENT; *MANUALS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; WATER ANALYSIS; WATER POLLUTION; WATER QUALITY

DESCRIPTIVE NOTE: 397P. STOCK NO. 055-001-010-01079-8

ABSTRACT: THIS MANUAL IS A TECHNICAL FIELD GUIDE AND REFERENCE DOCUMENT FOR IMPROVING THE PERFORMANCE OF MUNICIPAL WASTEWATER TREATMENT PLANTS. IT DESCRIBES GENERAL PROCEDURES FOR EVALUATING THE PERFORMANCE OF TREATMENT PROCESSES AND EQUIPMENT COMMONLY USED IN MUNICIPAL WASTEWATER FACILITIES. THE MANUAL IS ORGANIZED INTO FOUR SECTIONS. THE FIRST SECTION IS AN INTRODUCTION. THE SECOND CONTAINS A STEP-BY-STEP PROCEDURE FOR ORGANIZING AND CONDUCTING A PLANT VISIT AND EVALUATION. THE THIRD SECTION DISCUSSES VARIOUS UNIT PROCESSES AND HOW THEY AFFECT ONE ANOTHER. IT ALSO PRESENTS INFORMATION ON SAFETY, STAFFING, MONITORING, EMERGENCY PROCEDURES, AND MAINTENANCE. THE FOURTH PART GIVES DESCRIPTIONS, DESIGN CRITERIA AND SHORTCOMINGS, CONTROL CONSIDERATIONS, AND A TROUBLESHOOTING GUIDE FOR EACH UNIT PROCESS. (AUTHOR/BB)

AVAILABILITY: U.S. GPO, SUPERINTENDENT OF DOCUMENTS, WASHINGTON, DC 20402 ($5.50)

IRIS ACCESSION NUMBER: EW003272

PUBLICATION DATE: APR 78

TITLE: WASTEWATER ANALYSIS HANDBOOK.

DESCRIPTOR: *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; SAMPLING; *STANDARDS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 631P.

ABSTRACT: THIS HANDBOOK GIVES EPA APPROVED AND ALTERNATIVE HACH CHEMICAL COMPANY METHODS FOR WATER AND WASTEWATER ANALYSIS. STEP BY STEP PROCEDURES AND CHEMICAL AND EQUIPMENT LISTS ARE GIVEN FOR EACH ANALYSIS. PRICE LISTS AND ORDER NUMBERS ARE GIVEN FOR THE HACH REAGENTS AND LABORATORY APPATATUS. THE TIME AND COST SAVINGS OF EACH PROCEDURE ARE DETAILED. (BB)

VAILABILITY: HACH CHEMICAL CO., P.O. BOX 389, LOVELAND, CO 0537 ($10.00)

NSTITUTION NAME: HACH CHEMICAL CO.

RIS ACCESSION NUMBER: EW003274

ITLE: MANUAL OF INSTRUCTION FOR WASTE TREATMENT PLANT PERATORS.

ESCRIPTOR: *CHEMICAL ANALYSIS; *ENVIRONMENT; INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *OPERATIONS WATER); POST SECONDARY EDUCATION; WASTEWATER TREATMENT; WATER ANALYSIS; WATER POLLUTION CONTROL; *WATER QUALITY

ESCRIPTIVE NOTE: 308P.

BSTRACT: THIS MANUAL IS INTENDED TO BE A TEXTBOOK FOR A ATER TREATMENT OPERATORS COURSE. IT CONTAINS CHAPTERS ON HE PURPOSE OF WATER TREATMENT, WATER SOURCES AND USES, YDRAULICS AND ELECTRICITY, WATER CHEMISTRY, MICROBIOLOGY, ATER QUALITY, CHEMICAL COAGULATION, SEDIMENTATION, ILTRATION CHLORINATION, SOFTENING, AERATION, IRON AND AGNESIUM, TASTE AND ODOR CONTROL, CORROSION, FLUORIDATION, ROTECTION OF TREATED WATER, RECORDS AND REPORTING, REATMENT PLANT MAINTENANCE AND ACCIDENT PREVENTION, ATHEMATICS, AND LABORATORY EXAMINATION OF WATER. THE MANUAL HOULD BE UNDERSTANDABLE TO THE AVERAGE PLANT OPERATOR WITH HIGH SCHOOL EQUIVALENT BACKGROUND. EXTREMELY TECHNICAL ATERIAL HAS BEEN AVOIDED. (BB)

VAILABILITY: HEALTH EDUCATION SERVICE, P.O. BOX 7126, LBANY, NY 12224 ($2.00)

INSTITUTION NAME: NEW YORK STATE DEPT. OF HEALTH.

IRIS ACCESSION NUMBER: EW003275

UBLICATION DATE: 77

ITLE: FILTRATION: PRINCIPLES AND PRACTICES, PART I.

ERSONAL AUTHOR: ORR, CLYDE

ESCRIPTOR: *CHEMISTRY; *ENGINEERING; ENVIRONMENTAL NFLUENCES; *EQUIPMENT; *INDUSTRY; LABORATORY PROCEDURES; ATER POLLUTION CONTROL; AIR CONDITIONING; *FILTRATION; ASTEWATER TREATMENT; WATER TREATMENT

ESCRIPTIVE NOTE: 534P.

BSTRACT: THIS VOLUME PRESENTS DETAILED INFORMATION ON EVERAL AREAS OF SPECIALIZATION WITHIN THE GENERAL FRAMEWORK F FILTRATION. SEPERATE CHAPTERS ARE DEVOTED TO GAS AND IQUID FILTRATION THEORY. PRACTICAL ASPECTS OF INDUSTRIAL AS CLEANING AND FILTRATION AS APPLIED TO THE CHEMICAL, INERAL, FOOD, AND BEVERAGE INDUSTRIES ARE COVERED. ALSO INCLUDED ARE SECTIONS ON WATER AND WASTE FILTRATION, LTRAFILTRATION, VENTILATION AND AIR CONDITIONING, NALYTICAL APPLICATIONS, AND SPECIALIZED CARTRIDGE FILTERS. INALLY, FILTER MEDIA AND TESTING METHODS AND EVALUATION ARE XAMINED. (CS)

VAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW ORK, NY 10016 ($45.00)

IRIS ACCESSION NUMBER: EW003276

PUBLICATION DATE: 76

TITLE: WATER AND WASTE CONTROL FOR THE PLATING SHOP.

PERSONAL AUTHOR: KUSHNER, JOSEPH B.

DESCRIPTOR: CHEMISTRY; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; *INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *METALS; *NATURAL RESOURCES; POLLUTION; *POST SECONDARY EDUCATION; *RECYCLING; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *INDUSTRIAL WASTES

DESCRIPTIVE NOTE: 186P.

ABSTRACT: THIS BOOK PRESENTS AN INFORMAL INTRODUCTION TO THE PROBLEMS OF WATER RESOURCES AND WASTE CONTROL IN THE PLATING AND METAL FINISHING SHOP. TOPIC AREAS DISCUSSED INCLUDE THE PROPERTIES OF WATER, RECOVERY SYSTEMS, WASTE CONTROL TECHNIQUES, RECYCLING, AND RINSING PROCEDURES. CONVERSION CHARTS, SYSTEM DESIGNS, AND COST/BENIFIT ANALYSIS FACTORS ARE INCLUDED IN THE APPENDICES. (CS)

AVAILABILITY: GARDNER PUBLICATIONS, INC., 600 MAIN ST., CINCINNATI, OH 45202 ($15.00)

IRIS ACCESSION NUMBER: EW003277

PUBLICATION DATE: 74

TITLE: PUBLIC EMPLOYEE SAFETY GUIDE: WATER DEPARTMENT.

DESCRIPTOR: *CHEMICAL REACTIONS; ENVIRONMENTAL CRITERIA; EQUIPMENT; *FIRST AID; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; *SAFETY; WATER RESOURCES; *WATER POLLUTION CONTROL; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 23P.

ABSTRACT: THIS GUIDE DISCUSSES THE HAZARDS ASSOCIATED WITH SUPPLYING POTABLE WATER FOR HUMAN NEEDS. ALL ASPECTS OF THE TREATMENT PROCESS ARE DISCUSSED. EMPHASIS IS PLACED ON SAFEGUARDING THE EMPLOYEE. ADDITIONAL PRECAUTIONS ARE NOTED FOR EMPLOYEES INVOLVED WITH TRANSMISSION, ESPECIALLY THOSE INVOLVED WITH EXCAVATIONS AND MAINTENANCE. (CS)

AVAILABILITY: NATIONAL SAFETY COUNCIL, 425 N. MICHIGAN AVE., CHICAGO, IL 60611 ($3.10)

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW003283

PUBLICATION DATE: 76

TITLE: BETZ HANDBOOK OF INDUSTRIAL WATER CONDITIONING, 7TH ED.

DESCRIPTOR: AIR POLLUTION CONTROL; ENVIRONMENTAL INFLUENCES; *INDUSTRY; POLLUTION; *POST SECONDARY EDUCATION; *RECYCLING; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 344P.

ABSTRACT: THIS HANDBOOK ADDRESSES THE PROBLEMS ASSOCIATED WITH QUALITY AND POLLUTION CONTROL FOR INDUSTRIAL WATER USE. INFORMATION IS PROVIDED ON EXTERNAL TREATMENT, BOILER WATER AND COOLING WATER TREATMENT, AIR CONDITIONING AND REFRIGERATION COOLING WATER SYSTEM TREATMENTS, CHEMICAL FEEDING CONTROL, WATER REUSE, AND SPECIAL OPERATIONAL PROBLEMS. (CS)

AVAILABILITY: BETZ LABORATORIES, INC., SOMERTON RD., TREVOSE, PA 19047 ($15.00)

INSTITUTION NAME: BETZ LABORATORIES, INC.

IRIS ACCESSION NUMBER: EW003285

ERIC ACCESSION NUMBER: ED141165

PUBLICATION DATE: 74

TITLE: THERMAL POLLUTION BY NUCLEAR POWER PLANTS. A LEARNING EXPERIENCE FOR COASTAL AND OCEANIC AWARENESS STUDIES, NO. 320. PROJECT COAST .

INSTITUTION CODE: BBB14665

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: BIOLOGY; *ENERGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *OCEANOLOGY; POLLUTION; *SECONDARY GRADES; SECONDARY SCHOOL SCIENCE; SOCIAL STUDIES; *TEACHING GUIDES; WATER POLLUTION CONTROL; LIMNOLOGY; *NUCLEAR POWER PLANTS; PROJECT COAST

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 46P.; FOR RELATED DOCUMENTS, SEE SE 022 662-686

ISSUE: RIENOV77

ABSTRACT: THIS PUBLICATION INCLUDES SEVERAL ACTIVITIES REGARDING THE USE OF NUCLEAR POWER PLANTS AND POSSIBLE EFFECTS ON THE ENVIRONMENT. THE MATERIALS ARE DESIGNED FOR SECONDARY SCHOOL STUDENTS AND INCLUDE REFERENCE MATERIALS AND MASTERS FOR TRANSPARENCIES. (RH)

INSTITUTION NAME: DELAWARE UNIV., NEWARK. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003286

ERIC ACCESSION NUMBER: ED139599

PUBLICATION DATE: DEC 74

TITLE: EVALUATION REPORT OF THE TRAINING PROGRAM ON TRANSFER OF TECHNOLOGY---TRAINING OF GOVERNMENT PERSONNEL IN THE APPLICATION OF THE PRINCIPLES, STANDARDS AND PROCEDURES FOR PLANNING OF THE WATER RESOURCES COUNCIL.

PERSONAL AUTHOR: SJOGREN, DOUGLAS D.; WITTMAN, ROBERT D.

INSTITUTION CODE: BBB09574

SPONSORING AGENCY CODE: BBB12767

DESCRIPTOR: *EDUCATIONAL PROGRAMS; *EVALUATION; *GOVERNMENT EMPLOYEES; INSTRUCTION; MANPOWER DEVELOPMENT; *POST SECONDARY EDUCATION; TECHNOLOGY; *TRAINING; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 97P.; FOR RELATED DOCUMENT, SEE SE 021 307

ISSUE: RIEOCT77

ABSTRACT: THIS TRAINING PROGRAM WAS DEVELOPED TO PREPARE APPROXIMATELY 50 INDIVIDUALS TO SERVE AS DISCUSSION LEADERS IN FUTURE TRAINING PROGRAMS DEALING WITH THE PRINCIPLES AND STANDARDS OF THE WATER RESOURCES COUNCIL. THE EVALUATION REPORT IS ORGANIZED INTO THREE SECTIONS: (1) CONTEXT - EMPHASIZING SUCH INFORMATION AS PROGRAM DEVELOPMENT, PARTICIPANT AND STAFF CHARACTERISTICS, AND SETTING; (2) TRANSACTIONS - DIRECTED TOWARD DESCRIBING THE PROCEDURES EMPLOYED IN THE TRAINING PROGRAM; AND (3) OUTCOMES - FOCUSING ON INFORMATION AND ATTITUDES TOWARD THE SESSIONS AND THE PROGRAM IN GENERAL AND ON THE ACQUISITION OF KNOWLEDGE BY THE PROGRAM PARTICIPANTS. THE GENERAL CONCLUSION OF THE EVALUATION WAS THAT THE TRAINING PROGRAM WAS A WELL-PLANNED, WELL-MANAGED, SUCCESSFUL VENTURE THAT ACCOMPLISHED ITS ESTABLISHED GOALS. (BT)

GRANT NUMBER: 14-31-0001-4260

BUREAU NUMBER: X-143

INSTITUTION NAME: COLORADO STATE UNIV., FT. COLLINS. ENVIRONMENTAL RESOURCES CENTER.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESEARCH AND TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003287

ERIC ACCESSION NUMBER: ED139598

PUBLICATION DATE: DEC 74

TITLE: MANUAL FOR TRAINING IN THE APPLICATION OF THE PRINCIPLES AND STANDARDS OF THE WATER RESOURCES COUNCIL.

PERSONAL AUTHOR: CAULFIELD, HENRY P., JR., ED.; AND OTHERS

INSTITUTION CODE: BBB09574

SPONSORING AGENCY CODE: BBB12767

DESCRIPTOR: *EDUCATIONAL PROGRAMS; *GOVERNMENT EMPLOYEES; *INSTRUCTIONAL MATERIALS; MANPOWER DEVELOPMENT; *POST SECONDARY EDUCATION; *TRAINING; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$1.16 HC-$31.47 PLUS POSTAGE.

DESCRIPTIVE NOTE: 586P.; FOR RELATED DOCUMENT, SEE SE 021 308 ; TABLES AND LEGENDS FOR SOME FIGURES MAY BE MARGINALLY LEGIBLE DUE TO SMALL PRINT OF THE ORIGINAL DOCUMENT

ISSUE: RIEOCT77

ABSTRACT: THIS MANUAL IS ONE OF FOUR PLANNED OUTPUTS OF A TRAINING PROJECT CONDUCTED BY THE ENVIRONMENTAL RESOURCES CENTER OF COLORADO STATE UNIVERSITY WITH THE COOPERATION OF THE WATER RESOURCES COUNCIL. THE PURPOSE OF THIS MANUAL, TOGETHER WITH THE VIDEOTAPES OF LECTURES GIVEN DURING THE PROJECT, IS TO PROVIDE MATERIALS FOR THE CONDUCTING OF SIMILAR TRAINING COURSES BY OTHERS THROUGHOUT THE COUNTRY. ACADEMIC EXPERTS, TOP OFFICIALS OF THE WATER RESOURCES COUNCIL, PLANNING EXPERTS AND RESEARCH PERSONNEL WERE OBTAINED TO IMPART INTELLECTUAL UNDERSTANDING AND POLICY INDOCTRINATION CONCERNING THE PRINCIPLES AND STANDARDS; UNDERSTANDING OF SPECIFIC CRITERIA AND KNOWLEDGE NEEDED TO APPLY THEM IN THE WORLD OF PLANNING; AND KNOWLEDGE OF NEW TECHNOLOGIES. THE LECTURES/PAPERS OF THE INSTRUCTORS ON SUCH TOPICS AS ENVIRONMENTAL QUALITY OBJECTIVES, ENVIRONMENTAL PROJECTIONS, MEASUREMENT, SYSTEMS ANALYSIS, PUBLIC PARTICIPATION AND PLAN FORMULATION, ARE INCLUDED. A LIST OF THE 25 VIDEO TAPE CASSETTES DEVELOPED BY THE PROJECT AND THE PROJECT INSTRUCTORS CONCLUDES THIS MANUAL. (BT)

GRANT NUMBER: 14-31-0001-4242; 14-31-0001-4260

BUREAU NUMBER: C-5345; X-143

INSTITUTION NAME: COLORADO STATE UNIV., FT. COLLINS. ENVIRONMENTAL RESOURCES CENTER.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESEARCH AND TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003288

ERIC ACCESSION NUMBER: ED139393

PUBLICATION DATE: APR 73

TITLE: GLOSSARY OF WATER RESOURCE TERMS.

PERSONAL AUTHOR: TITELBAUM, OLGA ADLER

INSTITUTION CODE: BBB03718

DESCRIPTOR: DEFINITIONS; *GLOSSARIES; VOCABULARY; *WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 44P.

ISSUE: RIEOCT77

ABSTRACT: TWELVE REFERENCE SOURCES WERE USED IN THE COMPILATION OF THIS GLOSSARY OF WATER POLLUTION CONTROL TERMINOLOGY. DEFINITIONS FOR 364 WORDS, ACRONYMS, AND PHRASES ARE INCLUDED WITH CROSS REFERENCES. (KP)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

IRIS ACCESSION NUMBER: EW003289

ERIC ACCESSION NUMBER: ED138462

PUBLICATION DATE: 77

TITLE: TEACHER'S ACTIVITY GUIDE TO COASTAL AWARENESS. MARINE BULLETIN NO. 23.

PERSONAL AUTHOR: CALLAGHAN, SARA S.

INSTITUTION CODE: BBB14450

SPONSORING AGENCY CODE: BBB13347

DESCRIPTOR: *ELEMENTARY EDUCATION; *ELEMENTARY SCHOOL SCIENCE; MARINE BIOLOGY; *NATURAL RESOURCES; *OCEANOLOGY; SCIENCE EDUCATION; *TEACHING GUIDES; WATER RESOURCES; *RHODE ISLAND

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 90P.; FOR RELATED STUDENT ACTIVITY BOOK, SEE SE 022 416; PAGE 57 REMOVED DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIESEP77

ABSTRACT: THIS TEACHER'S GUIDE WAS PREPARED FOR USE WITH "DOWN WHERE THE WATER IS: A COASTAL AWARENESS ACTIVITY BOOK," AS PART OF THE RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL'S PUBLIC EDUCATION PROGRAM. CONTAINED ARE INSTRUCTIONS ON THE USE OF THE ACTIVITY BOOK, PAGE-BY-PAGE, WITH GLOSSARIES, ACTIVITY IDEAS, RESOURCES, PLACES TO VISIT, AND NOTES IDENTIFIED WHERE RELEVANT. ACTIVITY IDEAS ARE MULTI-DISCIPLINARY IN NATURE, WITH FOUR GENERAL SUBJECT AREAS SPECIFIED: (1) LANGUAGE ARTS; (2) SCIENCE AND MATHEMATICS; (3) SOCIAL STUDIES; AND (4) ART AND MUSIC. PICTURES IN THE ACTIVITY BOOK ARE DESIGNED TO PROMOTE DISCUSSION IN THE ELEMENTARY SCHOOL CLASSROOM OF PEOPLE, PLACES, AND THINGS RELATING TO THE COASTAL ENVIRONMENT. (CS)

REPORT NUMBER: MB-23

GRANT NUMBER: FRC-IGA-01-07

AVAILABILITY: RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL, 83 PARK ST., PROVIDENCE, RHODE ISLAND 02903 (NO PRICE QUOTED)

INSTITUTION NAME: RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL, PROVIDENCE.

SPONSORING AGENCY NAME: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (DOC), ROCKVILLE, MD.

IRIS ACCESSION NUMBER: EW003290

ERIC ACCESSION NUMBER: ED138461

PUBLICATION DATE: 77

TITLE: DOWN WHERE THE WATER IS: A COASTAL AWARENESS ACTIVITY BOOK. MARINE BULLETIN NO. 22.

PERSONAL AUTHOR: CALLAGHAN, SARA S.

INSTITUTION CODE: BBB14450

SPONSORING AGENCY CODE: BBB13347

DESCRIPTOR: *ELEMENTARY EDUCATION; *ELEMENTARY SCHOOL SCIENCE; *INSTRUCTIONAL MATERIALS; MARINE BIOLOGY; *NATURAL RESOURCES; SCIENCE EDUCATION; *SCIENCE MATERIALS; *WATER RESOURCES; WORKBOOKS; *RHODE ISLAND

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 26P.; FOR RELATED TEACHER'S GUIDE, SEE SE 022 417

ISSUE: RIESEP77

ABSTRACT: THIS ACTIVITY BOOKLET WAS PREPARED AS PART OF THE RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL'S PUBLIC EDUCATION PROGRAM. IT WAS DESIGNED TO INFORM YOUNGSTERS ABOUT THE IMPORTANCE AND USE OF COASTAL RESOURCES. LINE-DRAWN PICTURES OF COASTAL ACTIVITIES MAY BE EMPLOYED IN A VARIETY OF WAYS TO PROMOTE DISCUSSION AND AN AWARENESS OF THE COASTAL ENVIRONMENT. THE LAST TWO PAGES OF THE ACTIVITY BOOKLET CONTAIN CUT-OUT SENTENCES THAT MAY BE PASTED BELOW THEIR CORRESPONDING PICTURES. (CS)

REPORT NUMBER: MB-22

GRANT NUMBER: FRC-IGA-01-07

AVAILABILITY: RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL, 83 PARK STREET, PROVIDENCE, RHODE ISLAND 02903 (NO PRICE QUOTED)

INSTITUTION NAME: RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL, PROVIDENCE.

SPONSORING AGENCY NAME: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (DOC), ROCKVILLE, MD.

IRIS ACCESSION NUMBER: EW003291

ERIC ACCESSION NUMBER: ED137630

PROGRAM AREA: 08

PUBLICATION DATE: JAN 76

TITLE: A STUDY OF JOB DEMANDS AND CURRICULUM DEVELOPMENT IN AGRICULTURAL TRAINING RELATED TO THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM. FINAL REPORT. VOLUME IV. CAREER AWARENESS INFORMATION.

PERSONAL AUTHOR: FISHER, HAROLD S.; AND OTHERS

INSTITUTION CODE: MVK55950

SPONSORING AGENCY CODE: BBB09463

DESCRIPTOR: AGRIBUSINESS; AGRICULTURAL EDUCATION; AGRICULTURAL MACHINERY OCCUPATIONS; AGRICULTURAL OCCUPATIONS; AGRICULTURAL TECHNICIANS; AUDIOVISUAL AIDS; *FARM OCCUPATIONS; JUNIOR COLLEGES; LABORATORY TECHNOLOGY; LAND USE; OCCUPATIONAL INFORMATION; *OFF FARM AGRICULTURAL OCCUPATIONS; ORNAMENTAL HORTICULTURE; *SCRIPTS; SECONDARY EDUCATION; TECHNICAL EDUCATION; *VOCATIONAL DEVELOPMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *MICHIGAN; MICHIGAN (MUSKEGON COUNTY)

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 62P.; FOR RELATED DOCUMENTS SEE CE 010 459 AND CE 011 062-064. THE TWO FILMSTRIPS AND CASSETTE TAPES ARE AVAILABLE FROM THE SUPERINTENDENT, MUSKEGON AREA INTERMEDIATE SCHOOL DISTRICT, 630 HARVEY STREET, MUSKEGON, MICHIGAN 49442 ; PHOTOGRAPHS MAY NOT REPRODUCE CLEARLY

ISSUE: RIESEP77

ABSTRACT: THIS IS THE FINAL VOLUME OF A FOUR-VOLUME REPORT OF A RESEARCH PROJECT DESIGNED TO (1) IDENTIFY JOB NEEDS FOR AGRICULTURAL OCCUPATIONS WHICH WILL RESULT FROM THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM AND PERFORM A TASK ANALYSIS ON EACH OCCUPATION, (2) DEVELOP INSTRUCTIONAL MODULES AND DETERMINE THEIR PLACE IN EITHER HIGH SCHOOL OR 2-YEAR COLLEGE PROGRAMS, AND (3) IMPLEMENT AN ARTICULATED CURRICULUM WITH ACTUAL PROGRAMS. THIS VOLUME CONTAINS THE SCRIPTS TO THE TWO FILMS "PREPARING FOR A CAREER IN AN EXPANDING INDUSTRY--AGRICULTURE" AND "THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM--A SYSTEM DESIGNED TO TREAT DOMESTIC AND INDUSTRIAL WASTE NOW AND FOR THE FUTURE." THE SCRIPTS AND ACCOMPANYING FILMS, DEVELOPED FROM THE PROJECT, ARE DESIGNED TO ASSIST EDUCATORS IN PROVIDING STUDENTS WITH INFORMATION ON THE AGRICULTURAL INDUSTRY. (SH)

GRANT NUMBER: OEG-0-74-1669

BUREAU NUMBER: V0218VZ

INSTITUTION NAME: MUSKEGON AREA INTERMEDIATE SCHOOL DISTRICT, MICH.

SPONSORING AGENCY NAME: BUREAU OF OCCUPATIONAL AND ADULT EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003292

ERIC ACCESSION NUMBER: ED137629

PROGRAM AREA: 08

PUBLICATION DATE: JAN 76

TITLE: A STUDY OF JOB DEMANDS AND CURRICULUM DEVELOPMENT IN AGRICULTURAL TRAINING RELATED TO THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM. FINAL REPORT. VOLUME III. STUDENT TERMINAL PERFORMANCE OBJECTIVES AND INSTRUCTIONAL MODULES.

PERSONAL AUTHOR: FISHER, HAROLD S.; AND OTHERS

INSTITUTION CODE: MVK55950

SPONSORING AGENCY CODE: BBB09463

DESCRIPTOR: AGRICULTURAL EDUCATION; AGRICULTURAL MACHINERY OCCUPATIONS; *AGRICULTURAL OCCUPATIONS; AGRICULTURAL RESEARCH PROJECTS; AGRICULTURAL TECHNICIANS; *BEHAVIORAL OBJECTIVES; CURRICULUM DEVELOPMENT; FARM MANAGEMENT; FARM OCCUPATIONS; JOB SKILLS; JUNIOR COLLEGES; LABORATORY TECHNOLOGY; LAND USE; *LEARNING MODULES; OFF FARM AGRICULTURAL OCCUPATIONS; SECONDARY EDUCATION; *SKILL DEVELOPMENT; TECHNICAL EDUCATION; VOCATIONAL DEVELOPMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *MICHIGAN; MICHIGAN (MUSKEGON COUNTY)

EDRS PRICE: EDRS PRICE MF-$1.67 HC-$47.55 PLUS POSTAGE.

DESCRIPTIVE NOTE: 889P.; FOR RELATED DOCUMENTS SEE CE 010 459 AND CE 011 062-064

ISSUE: RIESEP77

ABSTRACT: THIS IS THE THIRD VOLUME OF A FOUR-VOLUME REPORT OF A RESEARCH PROJECT DESIGNED TO (1) IDENTIFY JOB NEEDS FOR AGRICULTURAL OCCUPATIONS WHICH WILL RESULT FROM THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM AND PERFORM A TASK ANALYSIS ON EACH OCCUPATION, (2) DEVELOP INSTRUCTIONAL MODULES AND DETERMINE THEIR PLACE IN EITHER HIGH SCHOOL OR 2-YEAR COLLEGE PROGRAMS, AND (3) IMPLEMENT AN ARTICULATED CURRICULUM WITH ACTUAL PROGRAMS. THIS VOLUME FOCUSES ON THE SECOND OBJECTIVE--STUDENT PERFORMANCE OBJECTIVES AND INSTRUCTIONAL MODULES. PERFORMANCE OBJECTIVES ARE PRESENTED FOR EACH OF THE EIGHT OCCUPATIONS IDENTIFIED IN RELATION TO WASTEWATER MANAGEMENT SYSTEMS: WASTEWATER TREATMENT OPERATOR, WASTEWATER TREATMENT LABORATORY TECHNICIAN, AGRICULTURAL EQUIPMENT MECHANIC, FARM EQUIPMENT OPERATOR, FARM MANAGER, FIELD SUPERVISOR, IRRIGATOR, AND GRAIN DRIER OPERATOR. THE PERFORMANCE OBJECTIVES ARE PRESENTED IN A FOUR-COLUMN FORMAT WHICH ALSO INCLUDES A CORRESPONDING INSTRUCTIONAL MODULE TOPIC, LEARNING CONDITIONS, AND CRITERIA. SETS OF INSTRUCTIONAL MODULES, OR EXAMPLES OF MODULES, FOR THE EIGHT OCCUPATIONS CONSTITUTE OVER HALF THE DOCUMENT. EACH MODULE CONTAINS A MODULE CONCEPT, PREREQUISITES, MODULE GOAL, CORRESPONDING STUDENT PERFORMANCE OBJECTIVE, INSTRUCTIONAL AREAS, AND EXAMPLES OF SUPPORTING REFERENCES, STUDENT LEARNING ACTIVITIES, AND EVALUATION TECHNIQUES. THE FOUR APPENDIXES CONTAIN INFORMATION RELATED TO THE DEVELOPMENT OF THE OBJECTIVES AND MODULES. (SH)

GRANT NUMBER: OEG-0-74-1669

BUREAU NUMBER: V0218VZ

INSTITUTION NAME: MUSKEGON AREA INTERMEDIATE SCHOOL DISTRICT, MICH.

SPONSORING AGENCY NAME: BUREAU OF OCCUPATIONAL AND ADULT EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003293

ERIC ACCESSION NUMBER: ED137628

PUBLICATION DATE: 8

TITLE: A STUDY OF JOB DEMANDS AND CURRICULUM DEVELOPMENT IN AGRICULTURAL TRAINING RELATED TO THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM. FINAL REPORT. VOLUME II. TASK ANALYSIS RESULTS.

PERSONAL AUTHOR: FISHER, HAROLD S.; AND OTHERS

INSTITUTION CODE: MVK55950

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: AGRICULTURAL EDUCATION; AGRICULTURAL MACHINERY OCCUPATIONS; *AGRICULTURAL OCCUPATIONS; AGRICULTURAL RESEARCH PROJECTS; AGRICULTURAL TECHNICIANS; CURRICULUM DEVELOPMENT; FARM MANAGEMENT; FARM OCCUPATIONS; *JOB SKILLS; JUNIOR COLLEGES; LABORATORY TECHNOLOGY; LAND USE; OCCUPATIONAL INFORMATION; OFF FARM AGRICULTURAL OCCUPATIONS; RESEARCH; SECONDARY EDUCATION; *TASK ANALYSIS; TECHNICAL EDUCATION; VOCATIONAL DEVELOPMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *MICHIGAN; MICHIGAN (MUSKEGON COUNTY)

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$26.11 PLUS POSTAGE.

DESCRIPTIVE NOTE: 490P.; FOR RELATED DOCUMENTS SEE CE 010 459 AND CE 011 062-064

ISSUE: RIESEP77

ABSTRACT: THIS IS THE SECOND VOLUME OF A FOUR-VOLUME REPORT OF A RESEARCH PROJECT DESIGNED TO (1) IDENTIFY JOB NEEDS FOR AGRICULTURAL OCCUPATIONS WHICH WILL RESULT FROM THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM AND PERFORM A TASK ANALYSIS ON EACH OCCUPATION, (2) DEVELOP INSTRUCTIONAL MODULES AND DETERMINE THEIR PLACE IN EITHER HIGH SCHOOL OR 2-YEAR COLLEGE PROGRAMS, AND (3) IMPLEMENT AN ARTICULATED CURRICULUM WITH ACTUAL PROGRAMS. THIS VOLUME FOCUSES ON THE FIRST OBJECTIVE--TASK ANALYSIS. THE INTRODUCTORY SECTION DISCUSSES PROJECT ACTIVITIES PERFORMED IN ANALYZING TASKS FOR RELATED OCCUPATIONS AND OCCUPATIONS CONCERNED WITH WASTEWATER MANAGEMENT SYSTEMS. THE MAJORITY OF THE DOCUMENT (211 PAGES) IS COMPOSED OF TASK ANALYSIS RESULTS FOR THE OCCUPATIONS IDENTIFIED: WASTEWATER TREATMENT OPERATOR, WASTEWATER TREATMENT LABORATORY TECHNICIAN, AGRICULTURAL EQUIPMENT MECHANIC, FARM EQUIPMENT OPERATOR, FARM MANAGER, FIELD SUPERVISOR, IRRIGATOR, AND GRAIN DRIER OPERATOR. USING A COLUMN FORMAT, THE FOLLOWING INFORMATION IS PRESENTED FOR EACH OCCUPATION: JOB SKILLS (PERCENT INDICATED ENTRY SKILL AND RELATIVE IMPORTANCE IN PERCENTAGES), JOB KNOWLEDGES (RELATIVE IMPORTANCE IN PERCENTAGES), JOB BEHAVIORS (RELATIVE IMPORTANCE IN PERCENTAGES), AND BASIC SKILLS (RELATIVE IMPORTANCE IN PERCENTAGES). THE FOUR APPENDIXES CONTAIN INFORMATION RELATED TO DATA COLLECTION, WITH APPENDIX A ILLUSTRATING THE FORMAT USED TO COLLECT DATA PERTAINING TO JOB SKILLS, KNOWLEDGES, BEHAVIORS, AND BASIC SKILLS FOR THE OCCUPATIONS STUDIED. (SH)

GRANT NUMBER: OEG-0-74-1669

BUREAU NUMBER: V0218VZ

INSTITUTION NAME: MUSKEGON AREA INTERMEDIATE SCHOOL DISTRICT, MICH.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003294

ERIC ACCESSION NUMBER: ED137544

PROGRAM AREA: 08

PUBLICATION DATE: JAN 76

TITLE: A STUDY OF JOB DEMANDS AND CURRICULUM DEVELOPMENT IN AGRICULTURAL TRAINING RELATED TO THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM. FINAL REPORT. VOLUME I. AN OVERVIEW OF THE RESEARCH PROJECT.

PERSONAL AUTHOR: FISHER, HAROLD S.; AND OTHERS

INSTITUTION CODE: MVK55950

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: AGRICULTURAL EDUCATION; AGRICULTURAL RESEARCH PROJECTS; BEHAVIORAL OBJECTIVES; *CURRICULUM DEVELOPMENT; EMPLOYMENT PROJECTIONS; FARM OCCUPATIONS; *JOB SKILLS; JOB TRAINING; JUNIOR COLLEGES; LAND USE; LEARNING MODULES; *MANPOWER NEEDS; MATERIAL DEVELOPMENT; OFF FARM AGRICULTURAL OCCUPATIONS; PROGRAM DESCRIPTIONS; PROGRAM DEVELOPMENT; RESEARCH; SECONDARY EDUCATION; SURVEYS; TASK ANALYSIS; *VOCATIONAL DEVELOPMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *MICHIGAN; MICHIGAN (MUSKEGON COUNTY)

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 115P.; FOR RELATED DOCUMENTS SEE CE 010 459 AND CE 011 062-064

ISSUE: RIESEP77

ABSTRACT: THIS VOLUME IS ONE OF A FOUR-VOLUME FINAL REPORT OF A RESEARCH PROJECT DEVELOPED TO IDENTIFY THE JOBS AND TRAINING NEEDS FOR THE AREA OF WASTEWATER LAND TREATMENT SYSTEMS AND RELATED AGRICULTURAL OCCUPATIONS. THE OVERALL PURPOSE OF THE PROJECT IS PRESENTED IN TERMS OF ITS SIX SUBOBJECTIVES: (1) TO IDENTIFY THE AGRICULTURAL OCCUPATIONS RELATED TO THE MUSKEGON COUNTY WASTEWATER MANAGEMENT SYSTEM (MCWMS) AND DETERMINE JOB NEEDS, (2) TO PERFORM A TASK ANALYSIS ON EACH OF THE IDENTIFIED AGRICULTURAL OCCUPATIONS RELATED TO THE MCWMS, (3) TO WRITE STUDENT TERMINAL PERFORMANCE OBJECTIVES AND DEVELOP MODULES OF INSTRUCTION, (4) TO EXPLORE THE POSSIBILITIES OF UTILIZING THE MCWMS AS AN EDUCATIONAL TOOL, (5) TO DEVELOP STUDENT AWARENESS INFORMATION, AND (6) TO IMPLEMENT AN ARTICULATED CURRICULUM WITH ACTUAL PROGRAMS. OVERALL FINDINGS PRESENTED SHOWED THAT NATIONWIDE EMPLOYMENT OF INDIVIDUALS WORKING IN CONVENTIONAL WASTEWATER TREATMENT SYSTEMS AS WELL AS MODERN SYSTEMS IS EXPECTED TO RISE RAPIDLY THROUGH THE MID-1980'S AND THAT THERE IS A NEED FOR STUDENT MODULES OF INSTRUCTION FOR THE AGRICULTURAL OCCUPATIONS. APPENDIXES CONSTITUTE THE MAJORITY OF THE DOCUMENT. MAJOR APPENDIXES ARE TITLED TASK ANALYSIS SURVEY INSTRUMENTS, SELECTED PAGES (9 PAGES), A SAMPLE OF THE FORMAT USED FOR WRITING STUDENT TERMINAL PERFORMANCE OBJECTIVES AND INSTRUCTIONAL MODULES (12 PAGES), AN EXPLANATION OF THE COMPONENTS IN THE INSTRUCTIONAL MODULES (2 PAGES), BIBLIOGRAPHY OF DOCUMENTS REVIEWED AND USED FOR THE PROJECT (11 PAGES), SURVEY QUESTION AND RESULTS CONCERNING USING THE MCWMS AS AN EDUCATIONAL TOOL (5 PAGES), AND A DISCUSSION OF POSSIBILITIES AND APPROACHES FOR IMPLEMENTING VOCATIONAL AND TECHNICAL AGRICULTURAL PROGRAMS IN CAREER EDUCATION BANNING DISTRICT #21 (14 PAGES). (SH)

GRANT NUMBER: OEG-0-74-1669

BUREAU NUMBER: V0218VZ

INSTITUTION NAME: MUSKEGON AREA INTERMEDIATE SCHOOL DISTRICT, MICH.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003295

ERIC ACCESSION NUMBER: ED137119

PUBLICATION DATE: 76

TITLE: EDUCATION IN HYDROLOGY AND WATER RESOURCES IN THE UNITED STATES - 1965-1974: AN OVERVIEW WITH RECOMMENDATIONS. FINAL REPORT OF THE WORK GROUP ON EDUCATION AND TRAINING OF THE U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL

HYDROLOGICAL DECADE.

INSTITUTION CODE: FGK56081

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: COLLEGE SCIENCE; COMMITTEES; *EDUCATIONAL NEEDS; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL RESEARCH; *HIGHER EDUCATION; INTERNATIONAL PROGRAMS; MANPOWER NEEDS; TECHNOLOGY; *WATER RESOURCES; *WORLD PROBLEMS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 83P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEAUG77

ABSTRACT: THIS FINAL REPORT OF THE WORK GROUP ON EDUCATION AND TRAINING OF THE UNITED STATES NATIONAL COMMITTEE FOR THE INTERNATIONAL HYDROLOGICAL DECADE PRESENTS AN OVERVIEW OF THE EDUCATIONAL NEEDS IN THE UNITED STATES AND ITS EDUCATIONAL AND TRAINING INVOLVEMENT WITH OTHER COUNTRIES REGARDING HYDROLOGICAL AND WATER RESOURCES TECHNOLOGY. CONTAINED ARE CONCLUSIONS AND RECOMMENDATIONS REGARDING EDUCATION AT UNIVERSITY AND PRE-UNIVERSITY LEVELS, CONTINUING EDUCATION AND TECHNOLOGY TRANSFER PROGRAMS, INTERNATIONAL ACTIVITIES, EDUCATION AND MANPOWER ASSESSMENTS, AND INSTITUTIONAL NEEDS. EACH OF THESE AREAS IS DISCUSSED IN DETAIL. (CS)

CONTRACT NUMBER: NSF-C-310

AVAILABILITY: U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL HYDROLOGICAL DECADE, NATIONAL ACADEMY OF SCIENCES, 2101 CONSTITUTION AVE., N.W., WASHINGTON, D.C. 20418 (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003296

ERIC ACCESSION NUMBER: ED137069

PUBLICATION DATE: 76

TITLE: THE HEALTH OF THE OCEANS.

PERSONAL AUTHOR: GOLDBERG, EDWARD D.

INSTITUTION CODE: IBG88895

DESCRIPTOR: CONSERVATION EDUCATION; *ECOLOGY; ENVIRONMENT; *GLOBAL APPROACH; *INSTRUCTIONAL MATERIALS; *MARINE BIOLOGY; *OCEANOLOGY; *POLLUTION; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; WORLD PROBLEMS; UNESCO

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 172P.

ISSUE: RIEAUG77

ABSTRACT: INTERNATIONAL SCIENTIFIC LITERATURE IS USED TO REVIEW RELEVANT DATA CONCERNING POLLUTION OF THE WORLD'S OCEANS. CHAPTERS 1, 8 AND 9 ADDRESS THEMSELVES TO THE PROBLEMS OF INTERNATIONAL CONTROL OF MARINE POLLUTION. CHAPTER 1 INTRODUCES THE IMPORTANCE OF THE TIME FACTOR, REVEALING INFORMATION ON HOW LONG IT TAKES A POLLUTANT TO REACH AN UNDESIRABLE LEVEL, HOW LONG IT WILL TAKE THAT LEVEL TO BECOME ACCEPTABLE UPON REMOVAL OF THE POLLUTANT SUPPLY, AND HOW LONG IT TAKES GOVERNMENTAL AGENCIES TO REACT FOLLOWING DISCOVERY BY SCIENTIFIC ASSESSMENT OR CATASTROPHY. MODES OF PREDICTING POTENTIAL POLLUTANTS ARE EXAMINED IN CHAPTER 8; CHAPTER 9 REVEALS STRATEGIES FOR GLOBAL MONITORING OF POLLUTANTS. CHAPTER 2 DISCUSSES THE DYNAMICS (TRANSPORT PATHS, FLUXES, MASS-BALANCE MODELS, HISTORICAL RECORDS) OF MARINE POLLUTANTS. CHAPTERS 3-7 DEFINE AND DETAIL THE FIVE MAJOR GROUPS OF OCEAN POLLUTANTS. BIOLOGICAL AND ENVIRONMENTAL IMPACTS ARE ASSESSED FOR EACH OF THE FOLLOWING SYNTHETIC HALOGENATED HYDROCARBONS (DDT, PCBS, HCB, MIREX, ETC.), RADIOACTIVE MATERIALS, HEAVY METALS (E.G., LEAD, MERCURY, CADMIUM), PETROLEUM HYDROCARBONS (CRUDE OIL, REFINED PRODUCTS, AND BIOGENOUS HYDROCARBONS), AND LITTER. INCLUDED IS SUCH INFORMATION AS POLLUTANT MOBILIZATION BY MAN OR NATURE, MEASUREMENTS OF THE LEVELS OF POLLUTANTS IN WATER, AIR, AND SEDIMENTS, AND IMPACTS ON LIVING SYSTEMS. (CS)

AVAILABILITY: UNIPUB, INC., P.O. BOX 443, NEW YORK, N.Y. 10016 (NO PRICE QUOTED)

INSTITUTION NAME: UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS (FRANCE).

IRIS ACCESSION NUMBER: EW003297

ERIC ACCESSION NUMBER: ED137064

PUBLICATION DATE: JUN 75

TITLE: WATER POLLUTION. PROJECT COMPSEP.

PERSONAL AUTHOR: LANTZ, H. B., JR.

INSTITUTION CODE: YUB88849

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; POLLUTION; SCIENCE EDUCATION; *SECONDARY EDUCATION; *TEACHING GUIDES; WATER POLLUTION CONTROL; *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 31P.; FOR RELATED DOCUMENT, SEE SE 021 529; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEAUG77

ABSTRACT: THIS IS AN INTRODUCTORY PROGRAM ON WATER POLLUTION. EXAMINED ARE THE CAUSE AND EFFECT RELATIONSHIPS OF WATER POLLUTION, SOURCES OF WATER POLLUTION, AND POSSIBLE ALTERNATIVES TO EFFECT SOLUTIONS FROM OUR WATER POLLUTION PROBLEMS. INCLUDED IS BACKGROUND INFORMATION ON WATER POLLUTION, A GLOSSARY OF POLLUTION TERMINOLOGY, A SCRIPT FOR A SLIDE SCRIPT PROGRAM, ACTIONS THAT CAN BE TAKEN TO REDUCE WATER POLLUTION, AND A FEW SUGGESTED ACTIVITIES. THE MATERIALS ARE DESIGNED FOR STUDENTS AT THE SECONDARY SCHOOL LEVEL. (RH)

AVAILABILITY: TITLE III ENVIRONMENTAL EDUCATION CENTER, ORANGE COUNTY HIGH SCHOOL, ORANGE, VIRGINIA 22960 (NO PRICE QUOTED)

INSTITUTION NAME: ORANGE COUNTY SCHOOL BOARD, VA.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003298

ERIC ACCESSION NUMBER: ED134756

PROGRAM AREA: 08

PUBLICATION DATE: 76

TITLE: METRICS FOR WASTEWATER TECHNOLOGY.

PERSONAL AUTHOR: COOPER, GLORIA S., ED.; MAGISOS, JOEL H., ED.

INSTITUTION CODE: BBB12937

SPONSORING AGENCY CODE: BBB09463

DESCRIPTOR: *CURRICULUM; ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MEASUREMENT INSTRUMENTS; *METRIC SYSTEM; SECONDARY EDUCATION; TEACHING TECHNIQUES; UNITS OF STUDY (SUBJECT FIELDS); *VOCATIONAL EDUCATION; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 61P.; FOR A RELATED DOCUMENT SEE CE 009 736-790

ISSUE: RIEJUL77

ABSTRACT: DESIGNED TO MEET THE JOB-RELATED METRIC MEASUREMENT NEEDS OF STUDENTS INTERESTED IN WASTEWATER TECHNOLOGY, THIS INSTRUCTIONAL PACKAGE IS PART OF A SET OF 55 PACKAGES FOR METRIC INSTRUCTION IN DIFFERENT OCCUPATIONS. THE PACKAGE IS INTENDED FOR STUDENTS WHO ALREADY KNOW THE OCCUPATIONAL TERMINOLOGY, MEASUREMENT TERMS, AND TOOLS CURRENTLY IN USE. EACH OF THE FIVE UNITS IN THIS INSTRUCTIONAL PACKAGE CONTAINS PERFORMANCE OBJECTIVES, LEARNING ACTIVITIES, AND SUPPORTING INFORMATION IN THE FORM OF TEXT, EXERCISES, AND TABLES. IN ADDITION, SUGGESTED TEACHING TECHNIQUES ARE INCLUDED. AT THE BACK OF THE PACKAGE ARE OBJECTIVE-BASED EVALUATION ITEMS, A PAGE OF ANSWERS TO THE EXERCISES AND TESTS, A LIST OF METRIC MATERIALS NEEDED FOR THE ACTIVITIES, REFERENCES, AND A LIST OF SUPPLIERS. THE MATERIAL IS DESIGNED TO ACCOMMODATE A VARIETY OF INDIVIDUAL TEACHING AND LEARNING STYLES, E.G., INDEPENDENT STUDY, SMALL GROUP, OR WHOLE-CLASS ACTIVITY. EXERCISES ARE INTENDED TO FACILITATE EXPERIENCES WITH MEASUREMENT INSTRUMENTS, TOOLS, AND DEVICES USED IN THIS OCCUPATION AND JOB-RELATED TASKS OF ESTIMATING AND MEASURING. UNIT 1, A GENERAL INTRODUCTION TO THE METRIC SYSTEM OF MEASUREMENT, PROVIDES INFORMAL, HANDS-ON EXPERIENCES FOR THE STUDENTS. THIS UNIT ENABLES STUDENTS TO BECOME FAMILIAR WITH THE BASIC METRIC UNITS, THEIR SYMBOLS, AND MEASUREMENT INSTRUMENTS; AND TO DEVELOP A SET OF MENTAL REFERENCES FOR METRIC VALUES. THE METRIC SYSTEM OF NOTATION ALSO IS EXPLAINED. UNIT 2 PROVIDES THE METRIC TERMS WHICH ARE USED IN THIS OCCUPATION AND GIVES EXPERIENCE WITH OCCUPATIONAL MEASUREMENT TASKS. UNIT 3 FOCUSES ON JOB-RELATED METRIC EQUIVALENTS AND THEIR RELATIONSHIPS. UNIT 4 PROVIDES EXPERIENCE WITH RECOGNIZING AND USING METRIC INSTRUMENTS AND TOOLS IN OCCUPATIONAL MEASUREMENT TASKS. IT ALSO PROVIDES EXPERIENCE IN COMPARING METRIC AND CUSTOMARY MEASUREMENT INSTRUMENTS. UNIT 5 IS DESIGNED TO GIVE STUDENTS PRACTICE IN CONVERTING CUSTOMARY AND METRIC MEASUREMENTS, A SKILL CONSIDERED USEFUL DURING THE TRANSITION TO METRIC IN EACH OCCUPATION. (HD)

CONTRACT NUMBER: OEC-0-74-9335

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. CENTER FOR VOCATIONAL EDUCATION.

SPONSORING AGENCY NAME: BUREAU OF OCCUPATIONAL AND ADULT EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003299

ERIC ACCESSION NUMBER: ED134435

PUBLICATION DATE: 76

TITLE: YOUR LITTLE CORNER OF THE WORLD.

INSTITUTION CODE: BBB13393

DESCRIPTOR: *AIR POLLUTION CONTROL; *CITIZEN PARTICIPATION; *CONSERVATION (CONCEPT); *ENVIRONMENT; NATURAL RESOURCES; *POLLUTION; REFERENCE MATERIALS; *WASTES; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 48P.

ISSUE: RIEJUN77

ABSTRACT: THIS PUBLICATION WAS PREPARED AS A GUIDELINE FOR CITIZENS OF ALABAMA WHO WANT TO IMPROVE THE ENVIRONMENT OF THEIR STATE. THIS BOOKLET INCLUDES 200 SUGGESTIONS FOR IMPROVING THE ENVIRONMENT. THESE SUGGESTIONS ARE DIVIDED

INTO THE FOLLOWING SECTIONS: (1) OUR AILING AIR; (2) OUR AILING EARTH; (3) OUR AILING WATER; AND (4) WHAT ELSE YOU CAN DO. THE FOURTH SECTION GIVES A VARIETY OF COMMUNITY, SCHOOL, AND INDIVIDUAL ACTIVITIES. WHILE THE PUBLICATION WAS WRITTEN FOR ALABAMA, MOST OF THE SUGGESTIONS CAN BE USED IN OTHER STATES. (RH)

AVAILABILITY: ALABAMA ENVIRONMENTAL QUALITY ASSOCIATION, P.O. BOX 11,000, MONTGOMERY, ALABAMA 36111 ($1.50)

INSTITUTION NAME: ALABAMA ENVIRONMENTAL QUALITY ASSOCIATION, MONTGOMERY.

IRIS ACCESSION NUMBER: EW003300

ERIC ACCESSION NUMBER: ED134410

PUBLICATION DATE: 74

TITLE: THE OHIO WATERSHED HERITAGE PROJECT. AN ENVIRONMENTAL COMMUNITY SERVICE FOR SECONDARY SCHOOL STUDENTS.

PERSONAL AUTHOR: CHADBOURNE, JOSEPH H.

INSTITUTION CODE: BBB10509

SPONSORING AGENCY CODE: BBB05608

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTION; *PROGRAM DESCRIPTIONS; SCIENCE ACTIVITIES; SECONDARY EDUCATION; *SECONDARY SCHOOL SCIENCE; *STUDENT PROJECTS; *WATER POLLUTION CONTROL; WATER RESOURCES; ENVIRONMENTAL PROTECTION AGENCY (EPA); *OHIO

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 96P.; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJUN77

ABSTRACT: DESCRIBED IS THE OHIO WATERSHED HERITAGE PROJECT. SECTIONS IN THE PUBLICATION INCLUDE THE FOLLOWING: (1) HISTORY LEADING TO THE PROJECT; (2) TEACHING METHODOLOGY OF THE PROGRAM; (3) TEACHER TRAINING; (4) WATERSHED STUDY OBJECTIVES; (5) LOCAL COORDINATORS; (6) EVALUATION PLAN; (7) GRADUATE STUDENT COMMENTS IN THE PROGRAM; (8) SECONDARY SCHOOL TEACHER COMMENTS; (9) SECONDARY STUDENT COMMENTS; (10) PARENT COMMENTS; (11) OBSERVER COMMENTS; (12) PROJECT DISSEMINATION EFFORTS; AND (13) ADOPTION AND IMPLEMENTATION. THE PROJECT STRESSED A HANDS-ON LEARNING APPROACH WITH THE EMPHASIS ON TEACHING PROFESSIONALLY RECOGNIZED WATER QUALITY PROCEDURES; THESE DATA WERE PROVIDED TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (EPA). ACCOMPLISHMENTS, PROBLEMS, AND THE RECOMMENDATIONS FOR FUTURE WORK ARE DETAILED. (RH)

GRANT NUMBER: OEG-0-74-7371

INSTITUTION NAME: INSTITUTE FOR ENVIRONMENTAL EDUCATION, CLEVELAND, OHIO.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. OFFICE OF ENVIRONMENTAL EDUCATION.

IRIS ACCESSION NUMBER: EW003301

ERIC ACCESSION NUMBER: ED134402

PUBLICATION DATE: 74

TITLE: ABSTRACT REPORTS, STUDENT-ORIGINATED STUDIES PROJECTS, 1974.

PERSONAL AUTHOR: HILL, BERTON F., ED.

INSTITUTION CODE: FGK57295

DESCRIPTOR: ABSTRACTS; *BIOLOGICAL SCIENCES; *COLLEGE SCIENCE; ENVIRONMENT; NATURAL RESOURCES; *PHYSICAL SCIENCES; *RESEARCH; RURAL AREAS; *SCIENCES; *UNDERGRADUATE STUDY; WATER RESOURCES; RESEARCH REPORTS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$24.77 PLUS POSTAGE.

DESCRIPTIVE NOTE: 474P.; PRESENTED AT THE PROJECT REPORTING MEETING (WASHINGTON, D.C. DECEMBER 26-28, 1974); FOR THE 1973 REPORT, SEE ED 100 708; BEST COPY AVAILABLE

ISSUE: RIEJUN77

ABSTRACT: THIS DOCUMENT CONTAINS ABSTRACTS TO 135 STUDENT-ORIGINATED RESEARCH PROJECTS SPONSORED BY THE NATIONAL SCIENCE FOUNDATION. ABSTRACTS ARE GROUPED UNDER THE FOLLOWING CATEGORIES: (1) GENERAL AND ENVIRONMENTAL STUDIES; (2) NATURAL AND RESOURCE STUDIES; (3) URBAN AND RURAL STUDIES; (4) WATER RELATED STUDIES. MOST PROJECTS LIST THE STUDY TITLE, LOCATION OF THE STUDY, DURATION OF THE STUDY, STUDENT PARTICIPANTS, FACULTY ADVISOR, AND AN ABSTRACT OF THEIR WORK AND FINDINGS. (RH)

REPORT NUMBER: NSF-75-38

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 038-000-00247-3, $5.20)

INSTITUTION NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003302

ERIC ACCESSION NUMBER: ED133227

PUBLICATION DATE: 75

TITLE: PRIORITY ONE: ENVIRONMENT. PROTECTING OUR WATER SUPPLIES, TEACHER'S GUIDE.

PERSONAL AUTHOR: COLAGRANDE, JOHN; SANTARSIERO, THOMAS

INSTITUTION CODE: BBB00990

SPONSORING AGENCY CODE: BBB00077; BBB06508

DESCRIPTOR: ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *SECONDARY EDUCATION; *TEACHING GUIDES; *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.; FOR RELATED DOCUMENTS, SEE SE 021 898-906; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEMAY77

ABSTRACT: MATERIAL FOR THIS TEACHER'S GUIDE INCLUDE: (1) AN INTRODUCTION TO THE UNIT; (2) A DISCUSSION OF THE SECTIONS OF THE UNIT; (3) INSTRUCTIONAL OBJECTIVES; (4) SUGGESTIONS ON USE OF FILMSTRIPS, WORKSHEETS, REFERENCE MATERIALS, AND ACTIVITY CARDS; AND (5) AN OUTLINE OF THE UNIT. THESE MATERIALS HAVE BEEN VALIDATED AS SUCCESSFUL, COST-EFFECTIVE, AND EXPORTABLE BY THE STANDARDS AND GUIDELINES OF THE U.S. OFFICE OF EDUCATION. (RH)

INSTITUTION NAME: UNION TOWNSHIP BOARD OF EDUCATION, N.J.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.; NEW JERSEY STATE DEPT. OF EDUCATION, TRENTON. DIV. OF RESEARCH, PLANNING, AND EVALUATION.

IRIS ACCESSION NUMBER: EW003303

ERIC ACCESSION NUMBER: ED133226

PUBLICATION DATE: 75

TITLE: PRIORITY ONE: ENVIRONMENT. PROTECTING OUR WATER SUPPLIES.

PERSONAL AUTHOR: COLAGRANDE, JOHN; SANTARSIERO, THOMAS

INSTITUTION CODE: BBB00990

SPONSORING AGENCY CODE: BBB00077; BBB06508

DESCRIPTOR: ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *SECONDARY EDUCATION; *UNITS OF STUDY (SUBJECT FIELDS); *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.; FOR RELATED DOCUMENTS, SEE SE 021 898-906; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEMAY77

ABSTRACT: THIS UNIT IS ONE OF A SERIES IN ENVIRONMENTAL EDUCATION FOR GRADES 1-12. THE UNIT IS DESIGNED TO BE USED WITH SECONDARY SCHOOL STUDENTS AND INCLUDES THE FOLLOWING SECTIONS: (1) PREFACE; (2) RIVERVIEW; (3) A HEALTHY WATERWAY; (4) AN UNHEALTHY WATERWAY; (5) CLEANUP TECHNOLOGY; (6) EFFECTS OF CERTAIN OTHER POLLUTANTS; (7) LAKE TAHOE; (8) THE ROLE OF THE INDIVIDUAL; AND (9) SCHEDULE SHEET FOR THE UNIT. REFERENCES TO AUDIOVISUAL MATERIALS, WORKSHEETS, AND ACTIVITIES ARE MADE; THESE MATERIALS ARE NOT INCLUDED WITH THIS PUBLICATION BUT MAY BE PURCHASED. THESE MATERIALS HAVE BEEN VALIDATED AS SUCCESSFUL, COST-EFFECTIVE, AND EXPORTABLE BY THE STANDARDS AND THE GUIDELINES OF THE U.S. OFFICE OF EDUCATION. (RH)

INSTITUTION NAME: UNION TOWNSHIP BOARD OF EDUCATION, N.J.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.; NEW JERSEY STATE DEPT. OF EDUCATION, TRENTON. DIV. OF RESEARCH, PLANNING, AND EVALUATION.

IRIS ACCESSION NUMBER: EW003304

ERIC ACCESSION NUMBER: ED133223

PUBLICATION DATE: 75

TITLE: PRIORITY ONE: ENVIRONMENT. FINAL REPORT ON THE PROJECT'S DEVELOPMENT AND EVALUATION, 1970-1975.

PERSONAL AUTHOR: MCCUTCHEON, PATRICIA, ED.

INSTITUTION CODE: BBB00990

SPONSORING AGENCY CODE: BBB00077; BBB06508

DESCRIPTOR: AIR POLLUTION CONTROL; BIOLOGY; *ELEMENTARY SECONDARY EDUCATION; ENERGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; EVALUATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POLLUTION; *PROGRAM DESCRIPTIONS; *UNITS OF STUDY (SUBJECT FIELDS); WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 17P.; FOR RELATED DOCUMENTS, SEE SE 021 899-906; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEMAY77

ABSTRACT: DESCRIBED ARE THE MATERIALS DEVELOPED BY PRIORITY ONE: ENVIRONMENT, A PROJECT OF THE TOWNSHIP OF UNION PUBLIC SCHOOLS, UNION, NEW JERSEY. THE PROGRAM WAS DESIGNED TO DEVELOP MULTIDISCIPLINARY AND MULTIMEDIA MATERIALS FOR GRADES 1-12. THIS PUBLICATION DESCRIBES THE DEVELOPMENT PROCESS, THE 13 MULTIMEDIA UNITS, THE EVALUATION PROCESS, COST EFFECTIVENESS DATA, AND INSERVICE REQUIRED. THE DATA INDICATE STUDENTS STUDYING THE MATERIALS DO SIGNIFICANTLY

BETTER ON TESTS RELATED TO THE PROGRAM THAN CONTROL GROUPS, KITS LAST ABOUT FOUR YEARS, CONSUMABLE COSTS ARE LOW, AND INSERVICE TRAINING NEEDED TO UTILIZE THE PROGRAM IS MINIMAL. (RH)

INSTITUTION NAME: UNION TOWNSHIP BOARD OF EDUCATION, N.J.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.; NEW JERSEY STATE DEPT. OF EDUCATION, TRENTON. DIV. OF RESEARCH, PLANNING, AND EVALUATION.

IRIS ACCESSION NUMBER: EW003305

ERIC ACCESSION NUMBER: ED133218

PUBLICATION DATE: 75

TITLE: HYDROSYSTEMS AND LAND USE DECISION MAKING.

PERSONAL AUTHOR: SCHAEFER, LARRY; AND OTHERS

INSTITUTION CODE: BBB14000

SPONSORING AGENCY CODE: BBB05608

DESCRIPTOR: COMMUNITY PLANNING; *EARTH SCIENCE; ECOLOGY; *ENVIRONMENT; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *LAND USE; *NATURAL RESOURCES; SECONDARY EDUCATION; UNITS OF STUDY (SUBJECT FIELDS); *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 53P.; FOR RELATED DOCUMENTS, SEE SE 021 868-882; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEMAY77

ABSTRACT: THIS MATERIAL INCLUDES STUDENT GUIDE SHEETS, REFERENCE MATERIAL, AND TAPE SCRIPT FOR THE AUDIO-TUTORIAL UNIT ON HYDROSYSTEMS. A SET OF 35MM SLIDES AND AUDIO TAPE ARE USED WITH THE MATERIALS. THE MATERIAL IS DESIGNED FOR USE WITH CONNECTICUT SCHOOLS, BUT CAN BE ADAPTED TO OTHER LOCALITIES. THIS UNIT IS DESIGNED TO PRESENT INFORMATION ON WATER AND THE HYDROSYSTEM WHICH MUST BE CONSIDERED IN LAND USE DECISION MAKING. EMPHASIZED ARE THE HYDROLOGIC CYCLE, GROUND WATER, WATERSHED AREAS, AND THE EFFECTS OF HUMAN USE ON THE HYDROSYSTEM. (RH)

AVAILABILITY: E-P EDUCATION SERVICES, C/O ACES, 800 DIXWELL AVENUE, NEW HAVEN, CT 06511 ($22.50 - PRICE INCLUDES TAPE AND SLIDES)

INSTITUTION NAME: AREA COOPERATIVE EDUCATIONAL SERVICES, NEW HAVEN, CONN. ENVIRONMENTAL EDUCATION CENTER.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. OFFICE OF ENVIRONMENTAL EDUCATION.

IRIS ACCESSION NUMBER: EW003306

ERIC ACCESSION NUMBER: ED132005

PUBLICATION DATE: 76

TITLE: WATER. PROJECT ECOLOGY ELE PAK, MCGRATH PAK .

PERSONAL AUTHOR: MCGRATH, JO ELLEN

INSTITUTION CODE: ZBQ31880

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CONSERVATION (ENVIRONMENT); ELEMENTARY EDUCATION; *ELEMENTARY SCHOOL SCIENCE; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *PRIMARY EDUCATION; SCIENCE EDUCATION; *UNITS OF STUDY (SUBJECT FIELDS); *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 65P.; FOR RELATED DOCUMENTS, SEE SE 021 438-478; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEAPR77

ABSTRACT: THIS IS ONE OF A SERIES OF UNITS FOR ENVIRONMENTAL EDUCATION DEVELOPED BY THE HIGHLINE PUBLIC SCHOOLS. THIS UNIT ON WATER IS DESIGNED FOR PRIMARY GRADES. INCLUDED ARE TEN LESSONS. EACH LESSON INCLUDES THE CONCEPTS OF THE LESSON, MATERIALS NEEDED, TIME FOR THE ACTIVITY, PROCEDURE, EVALUATIVE ACTIVITIES, AND FOLLOW-UP ACTIVITIES. INCLUDED ARE SUGGESTED FILMS, BOOKS, AND WORKSHEETS. MATERIALS WERE TRIED AND EVALUATED; EVALUATION DATA MAY BE OBTAINED FROM THE HIGHLINE PUBLIC SCHOOLS. (RH)

AVAILABILITY: HIGHLINE PUBLIC SCHOOLS, INSTRUCTIONAL DIVISION, PROJECT ECOLOGY ESEA TITLE III, BILL GUISE, DIRECTOR, 15675 AMBAUM BLVD., S.W., SEATTLE, WA 98166 ($2.50)

INSTITUTION NAME: HIGHLINE PUBLIC SCHOOLS, SEATTLE, WASH.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003307

ERIC ACCESSION NUMBER: ED132002

PUBLICATION DATE: 76

TITLE: WATER. PROJECT ECOLOGY ELE PAK, TOULOUSE & EDGAR PAK .

PERSONAL AUTHOR: TOULOUSE, DICK; EDGAR, LINDA

INSTITUTION CODE: ZBQ31880

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CONSERVATION (ENVIRONMENT); ENVIRONMENT; *ENVIRONMENTAL EDUCATION; GRADE 7; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *SECONDARY EDUCATION; *SECONDARY SCHOOL SCIENCE; *UNITS OF STUDY (SUBJECT FIELDS); *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 58P.; FOR RELATED DOCUMENTS, SEE SE 021 439-478

ISSUE: RIEAPR77

ABSTRACT: THIS IS ONE OF A SERIES OF UNITS FOR ENVIRONMENTAL EDUCATION DEVELOPED BY THE HIGHLINE PUBLIC SCHOOLS. THIS UNIT ON WATER IS DESIGNED FOR SEVENTH-GRADE SCIENCE CLASSES. INCLUDED ARE 13 LESSONS. EACH LESSON USUALLY INCLUDES THE CONCEPT OF THE LESSON, MATERIALS NEEDED, NOTES TO THE TEACHER, PROCEDURE, AND EVALUATION ACTIVITIES. IN ADDITION, THERE ARE MATERIALS FOR MAKING OVERHEAD TRANSPARENCIES AND QUIZ SHEETS. THE MATERIALS WERE TRIED AND EVALUATED; EVALUATION DATA MAY BE OBTAINED FROM THE HIGHLINE PUBLIC SCHOOLS. (RH)

AVAILABILITY: HIGHLINE PUBLIC SCHOOLS, INSTRUCTIONAL DIVISION, PROJECT ECOLOGY ESEA TITLE III, BILL GUISE, DIRECTOR, 15675 AMBAUM BOULEVARD, S.W., SEATTLE, WA 98166 ($2.50)

INSTITUTION NAME: HIGHLINE PUBLIC SCHOOLS, SEATTLE, WASH.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003308

ERIC ACCESSION NUMBER: ED131218

PUBLICATION DATE: 76

TITLE: TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE UNITED STATES GEOLOGICAL SURVEY. BOOK 3, APPLICATIONS OF HYDRAULICS. CHAPTER B2, INTRODUCTION TO GROUND-WATER HYDRAULICS: PROGRAMED TEXT FOR SELF-INSTRUCTION.

PERSONAL AUTHOR: BENNETT, GORDON D.

INSTITUTION CODE: BBB05243

DESCRIPTOR: AUTOINSTRUCTIONAL AIDS; GEOLOGY; *HYDRAULICS; *MATHEMATICAL CONCEPTS; PROGRAMED INSTRUCTION; PROGRAMED TEXTS; SCIENCE INSTRUCTION; SPECIALIZATION; TECHNICAL EDUCATION; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 183P.

ISSUE: RIEAPR77

ABSTRACT: THIS PROGRAMMED TEXT OF SELF-INSTRUCTION IS ONE OF A SERIES OF MANUALS ON TECHNIQUES DESCRIBING PROCEDURES FOR PLANNING AND EXECUTING SPECIALIZED WORK IN WATER-RESOURCES INVESTIGATIONS. IT HAS BEEN PREPARED ON THE ASSUMPTION THAT THE READER HAS COMPLETED STANDARD COURSES IN CALCULUS AND COLLEGE PHYSICS AND IS PRESENTED IN EIGHT PARTS. PART I INTRODUCES SOME FUNDAMENTAL HYDROLOGIC CONCEPTS AND DEFINITIONS. PART II DISCUSSES DARCY'S LAW FOR UNIDIRECTIONAL FLOW. PART III CONSIDERS THE APPLICATION OF DARCY'S LAW TO SOME SIMPLE FIELD PROBLEMS. THE CONCEPT OF GROUND-WATER STORAGE IS INTRODUCED IN PART IV. A TEXT-FORMAL DISCUSSION AT THE BEGINNING OF PART V DEALS WITH PARTIAL DERIVATIVES AND THEIR USE IN GROUNDWATER EQUATIONS; THE BASIC PARTIAL DIFFERENTIAL EQUATION FOR UNIDIRECTIONAL NONEQUILIBRIUM FLOW IS DEVELOPED IN THE PROGRAMMED MATERIAL OF PART V. IN PART VI, THE PARTIAL DIFFERENTIAL EQUATION FOR RADIAL CONFINED FLOW IS DERIVED AND THE "SLUG-TEST" SOLUTION, DESCRIBING THE EFFECTS OF AN INSTANTANEOUS INJECTION OF FLUID INTO A WELL, IS PRESENTED AND VERIFIED. PART VII INTRODUCES THE GENERAL CONCEPTS OF FINITE-DIFFERENCE ANALYSIS. PART VIII IS CONCERNED WITH ELECTRIC-ANALOG TECHNIQUES. (HD)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402

INSTITUTION NAME: GEOLOGICAL SURVEY (DEPT. OF INTERIOR), RESTON, VA.

IRIS ACCESSION NUMBER: EW003309

ERIC ACCESSION NUMBER: ED130929

PUBLICATION DATE: SEP 76

TITLE: ENVIRONMENTAL LAW II.

INSTITUTION CODE: BBB13827

DESCRIPTOR: AIR POLLUTION CONTROL; COMMUNITY DEVELOPMENT; CONFERENCE REPORTS; ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; FEDERAL LEGISLATION; *GOVERNMENT ROLE; INVESTIGATIONS; LAND USE; *LAWS; LAWYERS; LEGAL PROBLEMS; *LEGISLATION; NATURAL RESOURCES; REAL ESTATE; STATE LEGISLATION; WATER POLLUTION CONTROL; WATER RESOURCES; *ENVIRONMENTAL AWARENESS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 455P.; PAPERS PRESENTED AT ENVIRONMENTAL LAW II INSTITUTE (ASPEN, COLORADO, SEPTEMBER 11, 1976)

ISSUE: RIEMAR77

ABSTRACT: PRESENTED ARE PAPERS DELIVERED AT A 1976 COLORADO ENVIRONMENTAL LAW CONFERENCE. INCLUDED IN THE PUBLICATION ARE THE CONFERENCE SCHEDULE, THE TEXT OF NINE PAPERS, BACKGROUND INFORMATION ON AUTHORS, AND BIBLIOGRAPHY LISTINGS FOR EACH PAPER. TITLES AND TOPICS OF THE PAPERS ARE THE FOLLOWING: (1) WATER RESOURCES DEVELOPMENT AND THE ENVIRONMENT DISCUSSES WATER LAW IN COLORADO, WATER

RESOURCES, AND FEDERALLY RESERVED WATER RIGHTS; (2) A PANORAMA OF ENVIRONMENTAL LAWS PRESENTS AN OVERVIEW OF LAWS DEALING WITH RADIATION, NOISE, HISTORICAL PRESERVATION, PESTICIDES, AND WILDLIFE; (3) FEDERAL FREEDOM OF INFORMATION ACT ASKS, "WHO MUST DISCLOSE WHAT, AND TO WHOM?" AND "WHAT INFORMATION QUALIFIES AS CONFIDENTIAL?"; (4) NEPA: INTRODUCTION AND CURRENT DEVELOPMENTS DISCUSSES THE NATIONAL ENVIRONMENTAL POLICY ACT; (5) DEVELOPMENT ON FEDERAL LANDS PRESENTS INFORMATION ON OVERLAPPING STATE AND FEDERAL AGENCIES; (6) LAND USE CONTROL IN COLORADO--IMPACT ON COMMUNITY DEVELOPMENT SURVEYS STATE LEGISLATION INVOLVING LAND USE; (7) AIR QUALITY CONTROL DISCUSSES REGULATION OF REAL ESTATE DEVELOPMENT; (8) NATIONAL FLOOD INSURANCE PROGRAM SUMMARIZES CURRENT DEVELOPMENTS IN INSURANCE COVERAGE REGULATIONS; AND (9) WATER QUALITY CONTROL DISCUSSES REGULATION OF REAL ESTATE DEVELOPMENT AND WATER QUALITY STANDARDS. (AUTHOR/DB)

AVAILABILITY: CONTINUING LEGAL EDUCATION IN COLORADO, INC., 200 WEST 14TH AVENUE, DENVER, COLORADO 80204 ($20.00, LOOSELEAF BINDER)

INSTITUTION NAME: CONTINUING LEGAL EDUCATION IN COLORADO, INC., DENVER.

IRIS ACCESSION NUMBER: EW003310

ERIC ACCESSION NUMBER: ED130896

PUBLICATION DATE: 74

TITLE: WATER. AIDS TO INDIVIDUALIZE THE TEACHING OF SCIENCE, MINI-COURSE UNITS.

PERSONAL AUTHOR: FOLTZ, ROSS

INSTITUTION CODE: BBB00411

DESCRIPTOR: *CHEMICAL ANALYSIS; *CHEMISTRY; INDIVIDUALIZED INSTRUCTION; INSTRUCTIONAL MATERIALS; PROCESS EDUCATION; *SCIENCE EDUCATION; SCIENCE MATERIALS; SECONDARY EDUCATION; *SECONDARY SCHOOL SCIENCE; WATER POLLUTION CONTROL; MARYLAND (FREDERICK COUNTY); MINICOURSES; *WATER

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 35P.; FOR RELATED MINI-COURSE UNITS, SEE SE 021 624-656; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEMAR77

ABSTRACT: THIS BOOKLET, ONE OF A SERIES DEVELOPED BY THE FREDERICK COUNTY BOARD OF EDUCATION, FREDERICK, MARYLAND, PROVIDES AN INSTRUCTION MODULE FOR AN INDIVIDUALIZED OR FLEXIBLE APPROACH TO SECONDARY SCIENCE TEACHING. SUBJECTS AND ACTIVITIES IN THIS SERIES OF BOOKLETS ARE DESIGNED TO SUPPLEMENT A BASIC CURRICULUM OR TO FORM A TOTAL CURRICULUM, AND RELATE TO PRACTICAL PROCESS ORIENTED SCIENCE INSTRUCTION RATHER THAN THEORY OR MODULE BUILDING. INCLUDED IN EACH BOOKLET IS A STUDENT SECTION WITH AN INTRODUCTION, PERFORMANCE OBJECTIVES, AND SCIENCE ACTIVITIES WHICH CAN BE PERFORMED INDIVIDUALLY OR AS A CLASS, AND A TEACHER SECTION CONTAINING NOTES ON THE SCIENCE ACTIVITIES, RESOURCE LISTS, AND REFERENCES. THIS BOOKLET INTRODUCES THE STUDENT TO THE CHEMISTRY OF WATER. THE ESTIMATED TIME FOR COMPLETING THE ACTIVITIES IN THIS MODULE IS 2-3 WEEKS. (SL)

AVAILABILITY: FREDERICK COUNTY BOARD OF EDUCATION, 115 EAST CHURCH ST., FREDERICK, MD 21701 (NO PRICE QUOTED)

INSTITUTION NAME: FREDERICK COUNTY BOARD OF EDUCATION, MD.

IRIS ACCESSION NUMBER: EW003311

ERIC ACCESSION NUMBER: ED129534

PUBLICATION DATE: 73

TITLE: GLOSSARY OF WATER RESOURCES TERMS. TAFT CAMPUS OCCASIONAL PAPER NO. X.

PERSONAL AUTHOR: VOGL, ROBERT; VOGL, SONIA

INSTITUTION CODE: BBB02410

DESCRIPTOR: *GLOSSARIES; *INSTRUCTIONAL MATERIALS; *OUTDOOR EDUCATION; *TEACHER EDUCATION; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 10P.

ISSUE: RIEFEB77

ABSTRACT: A PRODUCT OF THE DEPARTMENT OF OUTDOOR TEACHER EDUCATION PROGRAM AT NORTHERN ILLINOIS UNIVERSITY, THIS GLOSSARY OF WATER RESOURCES TERMS INCLUDES 87 BRIEFLY DEFINED ENTRIES. EXAMPLES OF THE TERMS AND DEFINITIONS PRESENTED ARE: ACIDITY (PRESENCE OF ACIDS IN THE WATER WHICH PRODUCE A PH BELOW SEVEN); BATHYMETRY (STUDY OF LAKE BOTTOM CONTOURS); COLIFORM BACTERIA (A GROUP OF HARMLESS BACTERIA WHICH EXIST IN THE INTESTINES OF WARM BLOODED ANIMALS, USUALLY AN INDICATION OF THE PRESENCE OF SEWAGE OR HARMFUL BACTERIA); DROGUE (A DEVICE USED TO MEASURE WATER CURRENTS, USUALLY SUPPORTED BY A BUOY); EPILIMNION (THE WARM, LIGHT, UPPER LEVEL OF A STRATIFIED LAKE); GROIN (A NARROW STRUCTURE BUILT OUT INTO A LAKE FROM THE SHORE WHICH IS MEANT TO PROTECT THE SHORE FROM EROSION); HYPOLIMNION (THE COLD, HEAVY, LOWER LEVEL OF A STRATIFIED LAKE); LEE (THE SIDE OF A LAKE AWAY FROM THE PREVAILING WINDS, OR AN AREA PROTECTED FROM THEM); MARINE (INVOLVED WITH LARGE BODIES OF WATER, USUALLY THOSE WHICH ARE SALINE); NUTRIENTS (MATERIALS WHICH SUPPORT GROWTH, ESPECIALLY OF PLANTS); OUTFALL (THE END OF A PIPE OR TUBE WHICH DISCHARGES EFFLUENT INTO A BODY OF WATER, OR THE EFFLUENT ITSELF); PARAMETERS (THINGS WHICH ARE MEASURED, USUALLY IN RELATION TO SCIENTIFIC STUDIES OR EXPERIMENTS); SALINE (SALTY); ZOOPLANKTON (ANIMAL PLANKTON). (JC)

INSTITUTION NAME: NORTHERN ILLINOIS UNIV., OREGON. LORADO TAFT FIELD CAMPUS.

IRIS ACCESSION NUMBER: EW003312

ERIC ACCESSION NUMBER: ED128258

PUBLICATION DATE: 76

TITLE: THE MAJOR ENVIRONMENTALLY-BASED LAND USE ISSUES ON THE URBAN FRINGE.

PERSONAL AUTHOR: HORDON, ROBERT M.

DESCRIPTOR: CITY PLANNING; COMMUNITY PLANNING; CONSERVATION (ENVIRONMENT); CONTROLLED ENVIRONMENT; ECOLOGICAL FACTORS; GEOGRAPHY; GEOLOGY; *LAND USE; MAPS; METROPOLITAN AREAS; NATURAL RESOURCES; *PROBLEMS; SOIL CONSERVATION; SOIL SCIENCE; URBAN AREAS; *URBAN ENVIRONMENT; *URBANIZATION; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 9P.; PAPER PRESENTED AT THE INTERNATIONAL GEOGRAPHICAL CONGRESS (23RD, MOSCOW, USSR, JULY 1976)

ISSUE: RIEJAN77

ABSTRACT: TYPES OF LAND-USE ISSUES WHICH FORM CURRENT PROBLEMS IN URBAN AREAS ARE DISCUSSED IN THIS PAPER. THE MAJORITY OF THESE ENVIRONMENTALLY BASED ISSUES REVOLVE AROUND THE MANAGEMENT OF WATER. THE FIVE MOST OFTEN ENCOUNTERED WATER-ORIENTED ISSUES ARE DENOTED IN RANK ORDER OF IMPORTANCE. FIRST, AN AMPLE WATER SUPPLY WHICH IS FREE FROM CONTAMINATION MUST SERVE AS A FINITE LIMIT ON MUNICIPAL GROWTH. SECOND, SEWAGE DISPOSAL NEEDS TO BE PROVIDED BY ON-SITE SYSTEMS SUCH AS SEPTIC DISPOSAL AND SPRAY IRRIGATION OR BY OFF-SITE SYSTEMS SUCH AS LAGOONING, SMALL PACKAGE PLANTS, OR LARGE REGIONAL SEWAGE TREATMENT PLANTS. THIRD, STORM RUNOFFS, GENERATED BY DEVELOPMENT, NEED TO BE CONTROLLED. FOURTH, EROSION AND SEDIMENTATION, OCCURRING AT AN ENORMOUSLY ACCELERATED RATE DUE TO THE ACTIVITY OF MAN, NEED TO BE MANAGED. FIFTH, FLOOD PLAINS MUST BE MANAGED, WHICH BECOMES INCREASINGLY NECESSARY AS EACH NEW STRUCTURE BUILT IN THE FLOOD PLAIN OBSTRUCTS THE STREAM FLOW AND REDUCES THE AREA AVAILABLE TO THE STREAM TO CONVEY FLOOD WATERS. THE PERVASIVENESS OF WATER AS AN ELEMENT IN LAND-USE ISSUES NECESSITATES RATIONAL MANAGEMENT OF THE HYDROLOGIC CYCLE IN A REASONABLE URBAN PLANNING GOAL. (AUTHOR/DB)

IRIS ACCESSION NUMBER: EW003313

ERIC ACCESSION NUMBER: ED127150

PUBLICATION DATE: 75

TITLE: PRACTICAL APPLICATIONS OF SPACE SYSTEMS, SUPPORTING PAPER 5: INLAND WATER RESOURCES.

INSTITUTION CODE: BBB13566

SPONSORING AGENCY CODE: FGK56081; FGK56097

DESCRIPTOR: *AEROSPACE TECHNOLOGY; *COMMUNICATION SATELLITES; RESEARCH; SCIENCE EDUCATION; *SPACE SCIENCES; *TECHNOLOGY; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 86P.; FOR RELATED DOCUMENTS, SEE SE021003-010 AND SE021012-017

ISSUE: RIEDEC76

ABSTRACT: THIS REPORT SUMMARIZES THE FINDINGS OF ONE OF FOURTEEN PANELS THAT STUDIED PROGRESS IN SPACE SCIENCE APPLICATIONS AND DEFINED USER NEEDS POTENTIALLY CAPABLE OF BEING MET BY SPACE-SYSTEM APPLICATIONS. THE STUDY WAS REQUESTED BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA) AND WAS CONDUCTED BY THE SPACE APPLICATIONS BOARD. THE PANELS COMPRISED USER SPECIALISTS DRAWN FROM FEDERAL, STATE, AND LOCAL GOVERNMENTS AND FROM BUSINESS AND INDUSTRY. IN THIS REPORT, THE PANEL ON INLAND WATER RESOURCES DISCUSSES HOW AND TO WHAT EXTENT SPACE TECHNOLOGY CAN BE USED TO IMPROVE THE MANAGEMENT OF THE NATION'S INLAND WATER RESOURCES. THIS MANAGEMENT IS DISCUSSED IN FOUR AREAS: INVENTORY, BASIC RESEARCH ON HYDROLOGIC BALANCE, PLANNING, AND OPERATION. (MH)

CONTRACT NUMBER: NSR-09-012-106

AVAILABILITY: SPACE APPLICATIONS BOARD, NATIONAL RESEARCH COUNCIL, 2101 CONSTITUTION AVENUE, N.W., WASHINGTON, D.C. 20418 (FREE)

INSTITUTION NAME: NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C. ASSEMBLY OF ENGINEERING.

SPONSORING AGENCY NAME: NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.; NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003314

ERIC ACCESSION NUMBER: ED126366

PUBLICATION DATE: 76

TITLE: AN ANALYSIS OF CITIZEN PARTICIPATION PROGRAMS RELATING TO THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 (P.L. 92-500): CASE STUDIES OF THE WASHINGTON COUNTY PROJECT; STATE OF WISCONSIN; AND DANE COUNTY, WISCONSIN PROGRAMS.

PERSONAL AUTHOR: SALMON, ELIZABETH E.

DESCRIPTOR: *ADULT EDUCATION; *COMMUNITY DEVELOPMENT; *COMMUNITY INVOLVEMENT; COMMUNITY PROGRAMS; DECISION MAKING; *FEDERAL PROGRAMS; PROGRAM COSTS; PROGRAM DESIGN; PROGRAM PLANNING; PUBLIC SUPPORT; *WATER POLLUTION CONTROL; *WISCONSIN

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 94P.; MASTER'S THESIS, UNIVERSITY OF WISCONSIN-MADISON; FIGURES 1, 2, 3, 13 ON PP. 35, 40, 43, 70 MAY NOT REPRODUCE WELL IN MICROFICHE DUE TO POOR TYPE

QUALITY

ISSUE: RIEDEC76

ABSTRACT: THE THESIS, WHICH PRESENTS AN ANALYSIS OF THREE WISCONSIN CITIZEN PARTICIPATION PROGRAMS RELATING TO THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 (PUBLIC LAW 92-500), HAS IDENTIFIED THE ADULT EDUCATION ROLE IN TEACHING AND APPLYING SKILLS, PROMOTING GROWTH IN GOVERNMENTAL UNDERSTANDING, ASSISTING IN PUBLIC PLANNING AND DECISION-MAKING PROCESSES, AND CONTRIBUTING TO COMMUNITY BETTERMENT. A PUBLIC PARTICIPATION PROGRAM IS DESIGNED BY EACH GOVERNMENTAL AGENCY AS A PART OF ITS WORK PLAN; PUBLIC PARTICIPATION IS NEEDED TO DETERMINE COSTS AND BENEFITS AND TO ASSURE ACCEPTABILITY OF WATER QUALITY PLANNING DECISIONS. THE THREE CASE STUDIES, WHICH ARE PRESENTED TO DEMONSTRATE THE PROCESS AND PROBLEMS OF PUBLIC PARTICIPATION PROGRAMS INCLUDE THE PROGRAMS OF WASHINGTON COUNTY, WISCONSIN UNDER SECTION 103, POLLUTION CONTROL IN THE GREAT LAKES, DEALING WITH NONPOINT SOURCE POLLUTION, AND THE STATE OF WISCONSIN AND DANE COUNTY, WISCONSIN 208 PROGRAMS, WHICH ARE AREAWIDE WASTE TREATMENT MANAGEMENT PROGRAMS CONCERNED WITH POINT/NONPOINT SOURCE POLLUTION PROBLEMS. WITH THE ASSISTANCE OF A MODEL, EACH OF THE CASE STUDY PUBLIC PARTICIPATION PROGRAMS IS EXAMINED IN TERMS OF IDENTIFICATION OF PUBLICS TO BE INVOLVED, LEVEL OF INVOLVEMENT, AND DESIGN OF PROGRAM. (AUTHOR/EA)

IRIS ACCESSION NUMBER: EW003315

ERIC ACCESSION NUMBER: ED124405

PUBLICATION DATE: APR 75

TITLE: PROCEEDINGS OF WORKSHOP ON PRIORITY GREAT LAKES ENVIRONMENTAL RESEARCH INITIATIVES (GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY, ANN ARBOR, MICHIGAN, OCTOBER 10-11, 1974).

PERSONAL AUTHOR: PINSAK, ARTHUR P., ED.

INSTITUTION CODE: BBB02972; BBB13347

DESCRIPTOR: *CONFERENCE REPORTS; CONSERVATION (ENVIRONMENT); *ECOLOGY; *ENVIRONMENTAL RESEARCH; HIGHER EDUCATION; NATURAL RESOURCES; PHYSICAL ENVIRONMENT; SCIENTIFIC RESEARCH; WATER POLLUTION CONTROL; *WATER RESOURCES; *GREAT LAKES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 138P.; NOT AVAILABLE IN HARD COPY DUE TO SMALL PRINT THROUGHOUT; PREPARED BY THE ENVIRONMENTAL RESEARCH LABORATORIES

ISSUE: RIEOCT76

ABSTRACT: THIS PUBLICATION CONTAINS THE PROCEEDINGS OF A WORKSHOP HELD IN ANN ARBOR, MICHIGAN TO IDENTIFY THE PRIORITY GREAT LAKES ENVIRONMENTAL RESEARCH INITIATIVES. THE FIVE MAJOR OBJECTIVES OF THE WORKSHOP INCLUDE THE DETERMINATION OF RESEARCH INITIATIVES, OPPORTUNITIES FOR UNIVERSITY RESEARCH COMMUNITIES TO DISCUSS AND RECOMMEND FUTURE RESEARCH INITIATIVES, CONSIDERATION OF UNITED STATES-CANADIAN JOINT RESEARCH INITIATIVES, IDENTIFICATION OF LOGICAL FOLLOW-UP RESEARCH, AND EXPLORATION OF PRIORITY NEEDS OF MAJOR USERS. TOPICS INCLUDED IN THE DISCUSSIONS ARE WATER MOVEMENTS; SIMULATIONS OF AQUATIC ECOLOGY; GREAT LAKES DYNAMICS, SCALE, AND WATER LEVELS AND FLOWS; WATER QUALITY; AND LAKE-ATMOSPHERE BOUNDARY LAYER PROCESSES. TWO APPENDICES AT THE END OF THE PUBLICATION INCLUDE LISTINGS OF THE WORK GROUP MEMBERSHIP AND OF WORKSHOP ATTENDEES. (MA)

INSTITUTION NAME: DEPARTMENT OF COMMERCE, WASHINGTON, D.C.; NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (DOC), ROCKVILLE, MD.

IRIS ACCESSION NUMBER: EW003316

ERIC ACCESSION NUMBER: ED124394

PUBLICATION DATE: OCT 74

TITLE: PROCEEDINGS OF LEARNING FOR SURVIVAL: A SYMPOSIUM ON ENVIRONMENTAL EDUCATION AND WATER QUALITY FOR THE FUTURE (SPOKANE, WASHINGTON, OCTOBER 25-27, 1974).

PERSONAL AUTHOR: WIDDITSCH, ANN, ED.

INSTITUTION CODE: BBB13326

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: *CONFERENCE REPORTS; CONFERENCES; ELEMENTARY EDUCATION; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; INTERNATIONAL EDUCATION; RESEARCH; SECONDARY EDUCATION; TEACHER EDUCATION; *WATER POLLUTION CONTROL; *EXPO 74

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$24.77 PLUS POSTAGE.

DESCRIPTIVE NOTE: 466P.; SOME SMALL PRINT

ISSUE: RIEOCT76

ABSTRACT: THIS BOOK CONTAINS A RECORD OF PAPERS AND EDITED TRANSCRIPTS PRESENTED AT A PROGRAM SPONSORED BY THE INSTITUTE FOR ENVIRONMENTAL STUDIES. THE PROGRAM WAS PART OF AN INTERNATIONAL EXPOSITION ON THE ENVIRONMENT, EXPO 74 HELD IN SPOKANE, WASHINGTON. THE PROGRAM INCORPORATED THREE AREAS OF INTEREST: DESIGNING AND FINDING METHODS FOR IMPROVING ENVIRONMENTAL EDUCATION AT ALL LEVELS OF LEARNING INCLUDING PROFESSIONAL EDUCATORS, CIVIL SERVANTS, ELECTED OFFICIALS, INDUSTRIAL REPRESENTATIVES, STUDENTS, AND CITIZENS; SPECIAL SESSIONS ON WATER QUALITY EDUCATION FOR MEMBERS OF THE ENVIRONMENTAL PROTECTION AGENCY ADVISORY COMMITTEE; AND SPECIAL SESSIONS ON THE MANAGEMENT OF LARGE-SCALE INTERDISCIPLINARY RESEARCH PROJECTS FOR EDUCATORS INVOLVED IN A NATIONAL SCIENCE FOUNDATION GRANT. THE GENERAL SESSIONS INCLUDED SPEECHES ON UNIVERSITY AND SECONDARY PROGRAMS, INTERNATIONAL PROGRAMS, POLITICAL VIEWS, AND FINANCING. THE SPECIAL SESSIONS COVERED TOPICS IN WATER QUALITY EDUCATION, CURRICULUM, RESEARCH, AND PUBLIC SERVICE. (EDITOR/MR)

AVAILABILITY: INSTITUTE FOR ENVIRONMENTAL STUDIES, UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON 98195 (FREE)

INSTITUTION NAME: WASHINGTON UNIV., SEATTLE. INST. FOR ENVIRONMENTAL STUDIES.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003317

ERIC ACCESSION NUMBER: ED160345

PUBLICATION DATE: 77

TITLE: PUBLIC INFORMATION FOR WATER POLLUTION CONTROL.

INSTITUTION CODE: BBB15582

DESCRIPTOR: ADMINISTRATOR GUIDES; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; *NEWS MEDIA; NEWS REPORTING; PUBLIC FACILITIES; *PUBLIC RELATIONS; PUBLIC SPEAKING; *PUBLIC SUPPORT; *WATER POLLUTION CONTROL; *WATER POLLUTION CONTROL FEDERATION

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 70P.

ISSUE: RIEFEB79

ABSTRACT: THIS PUBLICATION IS A HANDBOOK FOR WATER POLLUTION CONTROL PERSONNEL TO GUIDE THEM TOWARDS A SUCCESSFUL PUBLIC RELATIONS PROGRAM. THIS HANDBOOK WAS WRITTEN TO INCORPORATE THE LATEST METHODS OF TEACHING BASIC PUBLIC INFORMATION TECHNIQUES TO THE NON-PROFESSIONAL IN THIS AREA. CONTENTS INCLUDE: (1) A RATIONALE FOR A PUBLIC INFORMATION PROGRAM; (2) AN EXPLANATION OF HOW TO WRITE A GOOD NEWS RELEASE; (3) TIPS FOR GETTING NEWS RELEASES PRINTED; (4) ADAPTING NEWS RELEASES TO VARIOUS MEDIA; (5) SUGGESTIONS ON HOW TO ORGANIZE AND RUN A SPEAKERS PROGRAM; (6) INSTRUCTIONS ON RUNNING A PUBLIC RELATIONS CAMPAIGN ON SEWER CONSTRUCTION PROJECTS AND WATER POLLUTION CONTROL FACILITY CONSTRUCTION PROJECTS; AND (7) A CASE HISTORY OF A PUBLIC INFORMATION PROGRAM RUN BY AN ENGINEER. ALTHOUGH AIMED AT THOSE INVOLVED IN THE PUBLIC AND WATER POLLUTION CONTROL WORK, THIS PUBLICATION MAY ALSO BE USEFUL TO WATER POLLUTION CONTROL EQUIPMENT MANUFACTURERS AND SUPPLIERS AND TO INTERESTED CITIZENS GROUPS AS WELL. (MR)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVENUE, N.W., WASHINGTON, D.C. 20037 (NO PRICE QUOTED)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003318

ERIC ACCESSION NUMBER: ED160369

PUBLICATION DATE: 77

TITLE: PUBLIC POLICY ON GROUND-WATER QUALITY PROTECTION. PROCEEDINGS OF A NATIONAL CONFERENCE (VIRGINIA POLYTECHNIC INST. AND STATE UNIVERSITY, BLACKSBURG, VIRGINIA, APRIL 13-16, 1977).

PERSONAL AUTHOR: KERNS, WALDON R., ED.

SPONSORING AGENCY CODE: BBB05151; BBB06039

DESCRIPTOR: *CONFERENCE REPORTS; CONFERENCES; ECOLOGICAL FACTORS; *ENVIRONMENTAL CRITERIA; ENVIRONMENTAL EDUCATION; ENVIRONMENTAL RESEARCH; *GEOLOGY; LAND USE; POLICY; *POLICY FORMATION; QUALITY CONTROL; WASTE DISPOSAL; *WATER RESOURCES; *GROUND WATER

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 163P.

ISSUE: RIEFEB79

ABSTRACT: THIS PUBLICATION CONTAINS THE PAPERS PRESENTED AT A NATIONAL CONFERENCE ON GROUND WATER QUALITY PROTECTION POLICY HELD IN APRIL OF 1977. PAPER TITLES INCLUDE: (1) MAGNITUDE OF THE GROUND-WATER CONTAMINATION PROBLEM; (2) LIMITED DEGREDATION AS A GROUND-WATER QUALITY POLICY; (3) SURFACE AND SUBSURFACE MINING: POLICY IMPLICATIONS; (4) OIL WELL OPERATION/MAINTENANCE AND SALTWATER INTRUSION: POLICY IMPLICATIONS; (5) AGRICULTURAL PRACTICES: POLICY IMPLICATIONS; (6) URBAN LAND-USE PRACTICES: POLICY IMPLICATIONS; (7) THE UNDERGROUND INJECTION PROGRAM UNDER THE NATIONAL SAFE DRINKING WATER ACT; (8) IMPACT OF FEDERAL LEGISLATION OTHER THAN THE SAFE DRINKING WATER ACT ON GROUND-WATER PROTECTION; AND (9) INSTITUTIONAL REQUIREMENTS FOR GROUND-WATER PROTECTION: THE NATIONAL WATER COMMISSION VIEW. AN INTRODUCTORY SECTION IN THE PUBLICATION GIVES AN OVERVIEW OF THE ISSUES AND PROBLEMS EXAMINED IN THE CONFERENCE PAPERS. (MR)

AVAILABILITY: VIRGINIA WATER RESOURCES RESEARCH CENTER, VIRGINIA POLYTECHNIC INST. AND STATE UNIVERSITY, BLACKSBURG, VIRGINIA 24061 ($10.00)

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.; VIRGINIA POLYTECHNIC INST., BLACKSBURG. EXTENSION DIV.

IRIS ACCESSION NUMBER: EW003319

ERIC ACCESSION NUMBER: ED160374

PUBLICATION DATE: OCT 77

TITLE: FIRST ORDER ESTIMATES OF ENERGY REQUIREMENTS FOR POLLUTION CONTROL. INTERAGENCY ENERGY-ENVIRONMENT RESEARCH AND DEVELOPMENT PROGRAM REPORT.

PERSONAL AUTHOR: BARKER, JAMES L.; AND OTHERS

INSTITUTION CODE: BBB15981

SPONSORING AGENCY CODE: BBB06757

DESCRIPTOR: *AIR POLLUTION CONTROL; ENERGY CONSERVATION; ENVIRONMENTAL CRITERIA; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL RESEARCH; ENVIRONMENTAL TECHNICIANS; *ESTIMATED COSTS; *FUEL CONSUMPTION; GOVERNMENT PUBLICATIONS; *WATER POLLUTION CONTROL; *ENVIRONMENTAL PROTECTION AGENCY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 95P.; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEFEB79

ABSTRACT: THIS U.S. ENVIRONMENTAL PROTECTION AGENCY REPORT PRESENTS ESTIMATES OF THE ENERGY DEMAND ATTRIBUTABLE TO ENVIRONMENTAL CONTROL OF POLLUTION FROM STATIONARY POINT SOURCES. THIS CLASS OF POLLUTION SOURCE INCLUDES POWERPLANTS, FACTORIES, REFINERIES, MUNICIPAL WASTE WATER TREATMENT PLANTS, ETC., BUT EXCLUDES MOBILE SOURCES SUCH AS TRUCKS, AND AUTOMOBILES, AND NON-POINT SOURCES SUCH AS SOME TYPES OF FARMS, MINES, ETC. ENERGY REQUIREMENT ESTIMATES FOR WATER POLLUTION CONTROL AND FOR AIR POLLUTION CONTROL ARE DISCUSSED SEPARATELY. THE DISCUSSION ON WATER POLLUTION CONTROL ENERGY REQUIREMENTS INCLUDES: (1) INDUSTRIAL WATER POLLUTION CONTROL; (2) CONTROL OF THERMAL POLLUTION FROM ELECTRIC POWER PLANTS; AND (3) MUNICIPAL WASTEWATER TREATMENT. THE AIR POLLUTION CONTROL ENERGY REQUIREMENT DISCUSSION DEALS WITH INDUSTRIAL AIR POLLUTION CONTROL AND WITH CONTROL OF SOX AND PARTICULATE EMISSIONS FROM ELECTRIC POWER PLANTS. ALSO INCLUDED IN THIS DOCUMENT IS A COMPARISON OF POLLUTION CONTROL-RELATED ENERGY ESTIMATES, A BIBLIOGRAPHY, AND A SUMMARY. THIS STUDY IS A CONTINUATION OF AN EARLIER EFFORT TO ESTIMATE THE ENERGY REQUIRED TO MEET POLLUTION STANDARDS FOR STATIONARY POINT SOURCES. (AUTHOR/MR)

REPORT NUMBER: EPA-600/7-78-022

CONTRACT NUMBER: EPA-68-01-4150

INSTITUTION NAME: DEVELOPMENT SCIENCES, INC., SAGAMORE, MASS.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.

IRIS ACCESSION NUMBER: EW003320

ERIC ACCESSION NUMBER: ED160420

PUBLICATION DATE: 30 NOV 76

TITLE: WATER CONSERVATION WITH WATER SAVING DEVICES, PROCEEDINGS OF A CONFERENCE. EXTENSION BULLETIN 421.

PERSONAL AUTHOR: SHELTON, THEODORE B., ED.

INSTITUTION CODE: BBB08664; BBB15982

SPONSORING AGENCY CODE: BBB06039; BBB16016

DESCRIPTOR: *CONFERENCE REPORTS; *CONSERVATION (ENVIRONMENT); *ENERGY CONSERVATION; ENVIRONMENT; FUELS; HEATING; SCIENCE EDUCATION; *UTILITIES; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 82P.

ISSUE: RIEFEB79

ABSTRACT: PRESENTED ARE SIX PAPERS ON WATER CONSERVATION WHICH WERE PRESENTED AT A CONFERENCE IN NEW JERSEY. THE FIRST TWO PAPERS PRESENT RECOMMENDATIONS OF THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION ON WATER CONSERVATION AND A MASTER PLAN FOR NEW JERSEY'S WATER SUPPLY NEEDS. THE FOLLOWING FOUR PAPERS DISCUSS WATER CONSERVATION WITH WATER-SAVING DEVICES, THE IMPACT OF HOME WATER-SAVING TOILETS ON WASTEWATER COLLECTION AND TREATMENT, THE POTENTIAL FOR ENERGY SAVINGS THROUGH REDUCTIONS, THROUGH THE USE OF FLOW REDUCING DEVICES AND OTHER CONSERVATION METHODS, AND THE IMPACT OF WATER-SAVING DEVICES ON THE WATER SUPPLY AND DRAINAGE SYSTEMS WITHIN BUILDINGS. (BB)

AVAILABILITY: PUBLICATIONS DISTRIBUTION CENTER, COOK COLLEGE, RUTGERS UNIVERSITY, NEW BRUNSWICK, N.J. 08903 ($5.00; MAKE CHECKS PAYABLE TO RUTGERS UNIVERSITY)

INSTITUTION NAME: RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N.J. COOK COLL.; RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N.J. COOPERATIVE EXTENSION SERVICE.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.; NEW JERSEY STATE DEPT. OF ENVIRONMENTAL PROTECTION, TRENTON.

IRIS ACCESSION NUMBER: EW003321

ERIC ACCESSION NUMBER: ED160427

PUBLICATION DATE: JUN 76

TITLE: SYSTEM INTERNATIONAL D'UNITES: METRIC MEASUREMENT IN WATER RESOURCES ENGINEERING.

PERSONAL AUTHOR: KLINGEMAN, PETER C.

INSTITUTION CODE: BBB05000

DESCRIPTOR: *ENGINEERING EDUCATION; *MEASUREMENT; *METRIC SYSTEM; *SCIENCE EDUCATION; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 17P.; PARTS MAY BE MARGINALLY LEGIBLE DUE TO SMALL TYPE

ISSUE: RIEFEB79

ABSTRACT: THIS PAMPHLET GIVES DEFINITIONS AND SYMBOLS FOR THE BASIC AND DERIVED METRIC UNITS, PREFIXES, AND CONVERSION FACTORS FOR UNITS FREQUENTLY USED IN WATER RESOURCES. INCLUDED ARE CONVERSION FACTORS FOR UNITS OF AREA, WORK, HEAT, POWER, PRESSURE, VISCOSITY, FLOW RATE, AND OTHERS. (BB)

AVAILABILITY: THE EXECUTIVE SECRETARY'S OFFICE, UNIVERSITIES COUNCIL ON WATER RESOURCES, 310 AGRICULTURAL HALL, UNIV. OF NEBRASKA, LINCOLN, NE 68583 (NO PRICE QUOTED)

INSTITUTION NAME: UNIVERSITIES COUNCIL ON WATER RESOURCES.

IRIS ACCESSION NUMBER: EW003322

ERIC ACCESSION NUMBER: ED124392

PROGRAM AREA: 88

PUBLICATION DATE: 74

TITLE: WATER, WATER EVERYWHERE MINICOURSE, CAREER ORIENTED PRE-TECHNICAL PHYSICS.

INSTITUTION CODE: XPT83331

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: INSTRUCTIONAL MATERIALS; PHYSICS; *PROGRAM GUIDES; *SCIENCE ACTIVITIES; SCIENCE CAREERS; SCIENCE EDUCATION; *SCIENCE MATERIALS; SECONDARY EDUCATION; *SECONDARY SCHOOL SCIENCE; TECHNICAL EDUCATION; *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 52P.; FOR RELATED DOCUMENTS, SEE SE 018 322-333 AND SE 019 605-616

ISSUE: RIEOCT76

ABSTRACT: THIS INSTRUCTIONAL GUIDE, INTENDED FOR STUDENT USE, DEVELOPS THE SUBJECT OF WATER AND ITS EFFECTS ON OUR LIVES THROUGH A SERIES OF SEQUENTIAL ACTIVITIES. A TECHNICAL DEVELOPMENT OF THE SUBJECT IS PURSUED WITH EXAMPLES STRESSING PRACTICAL ASPECTS OF THE CONCEPTS. INCLUDED IN THE MINICOURSE ARE: (1) THE RATIONALE, (2) TERMINAL BEHAVIORAL OBJECTIVES, (3) ENABLING BEHAVIORAL OBJECTIVES, (4) ACTIVITIES, (5) RESOURCE PACKAGES, AND (6) EVALUATION MATERIALS. THIS UNIT IS ONE OF TWELVE INTENDED FOR USE IN THE SECOND YEAR OF A TWO YEAR VOCATIONALLY ORIENTED PHYSICS PROGRAM. (CP)

INSTITUTION NAME: DALLAS INDEPENDENT SCHOOL DISTRICT, TEX.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003323

ERIC ACCESSION NUMBER: ED124348

PUBLICATION DATE: 75

TITLE: WILL THE FAMILY FARM SURVIVE IN AMERICA? PART 1: FEDERAL RECLAMATION POLICY (WESTLANDS WATER DISTRICT). JOINT HEARINGS BEFORE THE SELECT COMMITTEE ON SMALL BUSINESS AND THE COMMITTEE ON INTERIOR AND INSULAR AFFAIRS, U.S. SENATE, 94TH CONGRESS, 1ST SESSION (JULY 17 AND 22, 1975).

INSTITUTION CODE: BBB06153

DESCRIPTOR: AGRICULTURE; EXPENDITURES; *FARMERS; FEDERAL LEGISLATION; *FEDERAL PROGRAMS; *NATIONAL PROGRAMS; PROGRAM EFFECTIVENESS; RURAL AREAS; *RURAL FARM RESIDENTS; *WATER RESOURCES; *FEDERAL RECLAMATION PROGRAM; *WESTLANDS WATER DISTRICT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 186P.; NOT AVAILABLE IN HARD COPY DUE TO SMALL PRINT SIZE

ISSUE: RIEOCT76

ABSTRACT: THE NATIONAL RECLAMATION PROGRAM WAS TO ENCOURAGE PEOPLE TO SETTLE ON THE LAND, TO ENABLE THEM TO OWN THE LAND THEY FARMED, AND TO SPREAD THE BENEFIT OF SUBSIDIZED IRRIGATION WATER TO AS MANY INDEPENDENT FARM FAMILIES AS POSSIBLE. THE SAN LUIS UNIT OF THE CENTRAL VALLEY PROJECT, THE LARGEST PUMPED WATER DIVERSION AND WATER STORAGE PROJECT, WAS BUILT LARGELY TO DELIVER WATER TO THE WESTLANDS WATER DISTRICT, THE LARGEST SINGLE CONTRACTOR FOR FEDERALLY PROVIDED AND SUBSIDIZED WATER ANYWHERE. THIS FEDERALLY PROVIDED WATER HAS MADE THE WESTLANDS AREA ONE OF THE MOST RICHLY PRODUCTIVE AGRICULTURAL AREAS IN THE COUNTRY. IN 1973, THE GROSS VALUE OF FARM PRODUCE IN THE WESTLANDS DISTRICT WAS $167 MILLION, AND THE DISTRIBUTION SYSTEM SO FAR IS DELIVERING WATER ONLY TO PART OF THE DISTRICT. YET, TOTAL FEDERAL COST OF THE SAN LUIS UNIT, PLUS THE COST OF THE HUGE WATER DISTRIBUTION AND DRAINAGE SYSTEM BEING BUILT BY THE FEDERAL GOVERNMENT IN THE DISTRICT ITSELF, WILL AMOUNT TO OVER ONE-HALF BILLION DOLLARS. THESE JOINT HEARINGS REEXAMINED THE WESTLANDS WATER DISTRICT AND THE FEDERAL EXPENDITURES THAT HAVE BEEN MADE THERE AND REVIEWED HOW WELL, HOW EFFECTIVELY, AND HOW FULLY THE MANDATES OF CONGRESS WERE CARRIED OUT. AMONG THE WITNESSES WERE REPRESENTATIVES OF THE NATIONAL FARMERS UNION, NATIONAL LAND FOR PEOPLE, UNITED FARM WORKERS (AFL-CIO), THE U.S. DEPARTMENT OF THE INTERIOR, AND WESTLANDS WATER DISTRICT. (NQ)

INSTITUTION NAME: CONGRESS OF THE U.S., WASHINGTON, D.C. SENATE COMMITTEE ON INTERIOR AND INSULAR AFFAIRS.

IRIS ACCESSION NUMBER: EW003324

ERIC ACCESSION NUMBER: ED157728

PUBLICATION DATE: SEP 75

TITLE: AQUATIC PEST CONTROL. BULLETIN 754.

PERSONAL AUTHOR: MILLER, JAMES F.

INSTITUTION CODE: BBB15807; BBB15837

DESCRIPTOR: *AGRICULTURAL CHEMICAL OCCUPATIONS; AGRICULTURAL EDUCATION; AGRICULTURE; ENVIRONMENT; *HERBICIDES; MANUALS; *PESTICIDES; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *WEEDS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 13P.; FOR RELATED DOCUMENTS, SEE SE 024 698-706; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEDEC78

ABSTRACT: FOUR GROUPS OF AQUATIC WEEDS ARE DESCRIBED: ALGAE, FLOATING WEEDS, EMERSED WEEDS, AND SUBMERSED WEEDS. SPECIFIC REQUIREMENTS FOR PESTICIDE APPLICATION ARE GIVEN FOR STATIC WATER, LIMITED FLOW, AND MOVING WATER SITUATIONS. THE SECONDARY EFFECTS OF IMPROPER PESTICIDE APPLICATION RATES ARE GIVEN FOR STATIC, LIMITED FLOW, AND MOVING WATER, AND THE EFFECTS OF FAULTY APPLICATION ARE GIVEN. FINALLY, SURFACE APPLIED, TOTAL WATER COLUMN, AND BOTTOM ACRE-FOOT APPLICATION ARE DISCUSSED. (BB)

INSTITUTION NAME: GEORGIA DEPT. OF AGRICULTURE, ATLANTA.; GEORGIA UNIV., ATHENS. COOPERATIVE EXTENSION SERVICE.

IRIS ACCESSION NUMBER: EW003325

ERIC ACCESSION NUMBER: ED123045

PROGRAM AREA: 95

PUBLICATION DATE: 75

TITLE: WATER QUALITY. (STUDENT RESOURCE BOOK VIII IN THE INVESTIGATING YOUR ENVIRONMENT PROGRAM).

INSTITUTION CODE: DUN06181

SPONSORING AGENCY CODE: BBB06621; RMQ66000

DESCRIPTOR: CRITICAL READING; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *RESOURCE MATERIALS; SCIENCE COURSE IMPROVEMENT PROJECT; SCIENCE EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL SCIENCE; *WATER POLLUTION CONTROL; *WATER RESOURCES; BIOLOGICAL SCIENCES CURRICULUM STUDY; BSCS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTIVE NOTE: 56P.; FOR RELATED DOCUMENTS, SEE ED 116 901-902 AND SE 019 526-532

ISSUE: RIESEP76

ABSTRACT: THESE RESOURCE PAPERS ENCOURAGE THE STUDENT TO DISCOVER FOR HIMSELF THE CONTRIBUTIONS TO A PROBLEM MADE THROUGH ORIGINAL LITERATURE. SINCE SOME OF THE PAPERS ARE CONTROVERSIAL OR CONTRADICT OTHER PAPERS, THE STUDENT WILL NEED TO EVALUATE THEM TO DETERMINE HIS POSITION. IT IS HOPED THAT THESE PAPERS WILL ALSO FOSTER AN APPRECIATION OF THE WORK OF THE SCIENTISTS INVOLVED. THE FIRST ARTICLE SURVEYS WATER NEEDS AND USES. THE FOLLOWING ARTICLE DESCRIBES SOME INDICATORS THAT DETERMINE POLLUTION OF RIVERS. THE VITAL ROLE OF BACTERIA, PROTOZOA, AND OTHER TINY ORGANISMS IN PROVIDING CLEAN WATER IS DESCRIBED IN THE THIRD AND FOURTH PAPERS. THE NEXT FOUR PAPERS EXAMINE SPECIFIC POLLUTANTS. PAPER NINE PORTRAYS THE GROWING CONCERN ABOUT ENVIRONMENTAL DAMAGE CAUSED BY MODIFYING STREAMS TO CONTROL FLOODS. THE NEXT PAPER EXAMINES HOW MODIFICATIONS DEVISED BY MAN HAVE AFFECTED GALVESTON BAY IN TEXAS. THE FINAL ARTICLE REPORTS METHODS FOR GATHERING AND REPORTING INFORMATION ON WATER QUALITY IN LOCAL AREAS. (LS)

AVAILABILITY: ADDISON-WESLEY PUBLISHING COMPANY, SOUTH STREET, READING, MASSACHUSETTS 01867 (CODE NUMBER 0940, $2.01 PLUS POSTAGE AND HANDLING)

INSTITUTION NAME: BIOLOGICAL SCIENCES CURRICULUM STUDY, BOULDER, COLO.

SPONSORING AGENCY NAME: NATIONAL INST. OF EDUCATION (DHEW), WASHINGTON, D.C.; OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003326

ERIC ACCESSION NUMBER: ED121566

PROGRAM AREA: 98

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL EDUCATION TEACHER'S GUIDE, JUNIOR HIGH SCHOOL. A CORE EXPERIENCE STUDY OF THE NATURAL ENVIRONMENT.

PERSONAL AUTHOR: BENNETT, DEAN B.; WILLINK, WESLEY H.

INSTITUTION CODE: BBB06589

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM GUIDES; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; FIELD TRIPS; JUNIOR HIGH SCHOOLS; LEARNING ACTIVITIES; *SECONDARY EDUCATION; SKILL DEVELOPMENT; *TEACHING GUIDES; *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 75P.; FOR RELATED DOCUMENTS, SEE SE 019 332-335

ISSUE: RIEAUG76

ABSTRACT: THIS ENVIRONMENTAL EDUCATION TEACHER'S GUIDE, DEVELOPED FOR USE IN THE JUNIOR HIGH SCHOOL, IS DESIGNED TO FAMILIARIZE TEACHERS WITH HOW AN ENVIRONMENTAL EDUCATION PROGRAM CAN HELP IN THEIR TEACHING AND IN ACHIEVING THE GOALS OF THE SCHOOL. THE SUGGESTED CORE ACTIVITIES IN THIS GUIDE ARE DESIGNED TO BE A MOTIVATING WAY OF INTRODUCTING JUNIOR HIGH SCHOOL STUDENTS TO A PRACTICAL UNDERSTANDING OF THE NATURAL ENVIRONMENT. THE ACTIVITIES FOCUS ON THOSE FACTORS IMPORTANT IN EVALUATING THE STABILITY OF NATURAL ECOSYSTEMS AND THEREBY IDENTIFY AREAS SENSITIVE TO HUMAN DEVELOPMENT. THE PRACTICALITY OF THE UNIT IS ENHANCED BY THE APPLICATION OF STABILITY CONCEPTS IN THE CONTENT OF A WATERSHED. THE ACTIVITIES HAVE BEEN DEVISED TO DEVELOP SPECIFIC UNDERSTANDINGS, FEELINGS AND SKILLS. BASIC CONCEPTS, ATTITUDES, OBJECTIVES AND SKILLS ARE IDENTIFIED AND A PRE-POST TEST IS INCLUDED TO HELP THE TEACHER ASSESS EDUCATIONAL OUTCOMES. (BT)

AVAILABILITY: MAINE ENVIRONMENTAL EDUCATION PROJECT, INTERMEDIATE SCHOOL, YARMOUTH, MAINE 04096 (FREE)

INSTITUTION NAME: MAINE ENVIRONMENTAL EDUCATION PROJECT, YARMOUTH.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003328

ERIC ACCESSION NUMBER: ED118652

PUBLICATION DATE: JUL 75

TITLE: AN APPROACH TO THE EVALUATION OF EPA TRAINING COURSE EFFECTIVENESS WITH RECOMMENDATIONS FOR IMPROVEMENT OF FUTURE COURSES AND ASSESSMENT TECHNIQUES.

PERSONAL AUTHOR: LEHNERT, GEORGE R.

DESCRIPTOR: ACHIEVEMENT GAINS; ACHIEVEMENT TESTS; *COURSE EVALUATION; DATA ANALYSIS; *EDUCATIONAL PROGRAMS; EVALUATION METHODS; MANUALS; *MEASUREMENT TECHNIQUES; OBSERVATION; PARTICIPANT SATISFACTION; PROFESSIONAL PERSONNEL; PROGRAM EFFECTIVENESS; QUESTIONNAIRES; TEST CONSTRUCTION; TRAINING; *WATER POLLUTION CONTROL; ENVIRONMENTAL PROTECTION AGENCY TRAINING COURSE; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE

DESCRIPTIVE NOTE: 176P.; PH.D. DISSERTATION, WALDEN UNIVERSITY; SEVERAL TABLES MAY REPRODUCE POORLY

ISSUE: RIEJUN76

ABSTRACT: THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) PROVIDED A PROGRAM OF TRAINING COURSES IN THE PREVENTION, REDUCTION, AND CONTROL OF WATER POLLUTION FOR PERSONNEL OF FEDERAL, STATE, AND LOCAL GOVERNMENTAL AGENCIES, PRIVATE INDUSTRIES, AND UNIVERSITIES. A TRIANGULATION APPROACH WAS PURSUED IN THE INSTRUMENTATION CONCEPT. THAT IS, THREE EVALUATION INSTRUMENTS WERE DEVELOPED. THESE WERE: (1) A QUESTIONNAIRE TO BE SENT TO THE STUDENTS AFTER THEY HAD RETURNED TO THEIR HOMES FOLLOWING COMPLETION OF THE COURSE; (2) A PARTICIPANT OBSERVER MANUAL IN WHICH PRESTRUCTURED FORMS WERE DESIGNED FOR MAKING OBSERVATIONS RELATIVE TO TOPIC SEQUENCING, TEACHING TECHNIQUES, CONTENT, INSTRUCTORS' KNOWLEDGE OF THE SUBJECT, INSTRUCTORS' TRANSFER ABILITY, VISUAL AIDS, PHYSICAL FACILITIES, AND MORALE; AND (3) A SUBJECT MATTER TEST TO BE USED FOR DETERMINING STUDENT GROWTH IN NUMBER OF CORRECT RESPONSES. ELEVEN COURSE VARIABLES WERE ANALYZED IN LIGHT OF QUESTIONNAIRE AND PARTICIPANT OBSERVER DATA. FINDINGS WERE PRESENTED FOR EACH OF THE VARIABLES. ANOTHER ANALYSIS RELATED TO GROWTH IN LEARNING IN TERMS OF CHANGE IN SCORE IN THE PRETEST AND POST-TEST AND THE EXTENT THE STUDENTS CONSIDER THE LEARNING TO BE VALUABLE IN HELPING THEM TO DO A BETTER JOB AND ENHANCE THEIR ADVANCEMENT. RECOMMENDATIONS WERE MADE. (RC)

IRIS ACCESSION NUMBER: EW003329

ERIC ACCESSION NUMBER: ED118081

PUBLICATION DATE: DEC 75

TITLE: A MULTIDISCIPLINARY APPROACH TO SOLVING COMMUNITY WATER PROBLEMS. INFORMATION REPORT 76.

PERSONAL AUTHOR: SHARPE, W. E.; AND OTHERS

INSTITUTION CODE: BBB12766

SPONSORING AGENCY CODE: BBB12767

DESCRIPTOR: COMMUNITY PROBLEMS; EXTENSION AGENTS; INFORMATION CENTERS; *INFORMATION DISSEMINATION; *INFORMATION NEEDS; INFORMATION SEEKING; INFORMATION SOURCES; INFORMATION UTILIZATION; INTERAGENCY COOPERATION; INTERDISCIPLINARY APPROACH; ORGANIZATION; RESEARCH PROJECTS; SURVEYS; TECHNOLOGICAL ADVANCEMENT; *WATER POLLUTION CONTROL; *WATER RESOURCES; PENNSYLVANIA; PENNSYLVANIA COOPERATIVE EXTENSION SERVICE; *WATER RESOURCES SCIENTIFIC INFORMATION CENTER

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE

DESCRIPTIVE NOTE: 81P.

ISSUE: RIEJUN76

ABSTRACT: IN RESPONSE TO THE NEED OF MANY INDIVIDUALS AND COMMUNITIES THROUGHOUT PENNSYLVANIA FOR AN EFFECTIVE NETWORK TO DISSEMINATE INFORMATION ABOUT WATER RESOURCES, A STUDY WAS CONDUCTED TO EXPLORE POSSIBLE RELATIONSHIPS BETWEEN THE WATER RESOURCES CENTER AND THE PENNSYLVANIA COOPERATIVE EXTENSION SERVICE. THE REPORT FOCUSED ON A CASE HISTORY REVIEW OF THE INFORMATION TRANSFER SPECIALIST WHO FACILITATED EXCHANGES BETWEEN THE TWO AGENCIES. TO ASSIST THE SPECIALIST, A WATER RESOURCES NEEDS SURVEY WAS DISTRIBUTED TO RELEVANT COMMUNITY MEMBERS TO DETERMINE THE SERIOUSNESS OF LOCAL WATER PROBLEMS. HE ACQUIRED ADDITIONAL INFORMATION THROUGH THE USE OF TRADE JOURNALS, NEWSPAPER CLIPPINGS, AND A COMPUTER-BASED WATER RESOURCES INFORMATION CENTER. THE RESEARCH PROJECT HAS SERVED TO REINFORCE THE FEELING THAT THE JOINT WATER CENTER-EXTENSION PROGRAMS HAVE THE POTENTIAL TO GREATLY ENHANCE THE SUCCESSFUL TRANSFER OF

WATER RESOURCES INFORMATION. (EMH)

REPORT NUMBER: PSU-IRLWR-IR-76

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. INST. FOR RESEARCH ON LAND AND WATER RESOURCES.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESEARCH AND TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003330

PUBLICATION DATE: JUN 73

TITLE: ESTIMATING LABORATORY NEEDS FOR MUNICIPAL WASTEWATER TREATMENT FACILITIES.

DESCRIPTOR: EQUIPMENT; FACILITIES; *FACILITY GUIDELINES; *LABORATORIES; *LABORATORY PROCEDURES; MUNICIPALITIES; *OPERATIONS (WASTEWATER); POLLUTION; UTILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 140P.

ABSTRACT: THIS REPORT DESCRIBES THE CRITERIA FOR OPERATING A MUNICIPAL WASTEWATER TREATMENT PLANT LABORATORY. INFORMATION IS PROVIDED REGARDING SAMPLING AND TESTING, PHYSICAL FACILITIES, STAFFING, AND LABORATORY SERVICES. SPECIFIC TOPIC AREAS OF THESE CATEGORIES INCLUDE: (1) RECOMMENDED PROGRAMS; (2) EQUIPMENT, SUPPLIES, AND CHEMICALS; (3) PROCEDURES FOR ESTIMATING STAFFING; AND (4) REGIONAL AND COMBINED LABORATORIES. (CS)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 ($1.45)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAM OPERATIONS.

IRIS ACCESSION NUMBER: EW003331

ERIC ACCESSION NUMBER: ED116973

PUBLICATION DATE: SEP 75

TITLE: PLANT OPERATIONS FOR WASTEWATER FACILITIES, VOL. II, PART D. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS.

PERSONAL AUTHOR: STOAKES, K. C.; AND OTHERS

INSTITUTION CODE: BBB06557; BBB12617; BBB12618

DESCRIPTOR: EDUCATIONAL OBJECTIVES; ENVIRONMENTAL EDUCATION; *POST SECONDARY EDUCATION; *TEACHING GUIDES; TECHNICAL EDUCATION; *TECHNOLOGY; VOCATIONAL EDUCATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; *SEWAGE TREATMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$4.43 PLUS POSTAGE

DESCRIPTIVE NOTE: 90P.; FOR RELATED DOCUMENTS, SEE SE 020 265-269

ISSUE: RIEMAY76

ABSTRACT: THIS INSTRUCTOR'S GUIDE, DESIGNED FOR USE WITH THE CURRICULUM, PLANT OPERATIONS FOR WASTEWATER FACILITIES, REPRESENTS A TWO-YEAR WASTEWATER TECHNOLOGY INSTRUCTIONAL PROGRAM BASED ON PERFORMANCE OBJECTIVES DESIGNED TO PREPARE UNDERGRADUATE STUDENTS TO ENTER OCCUPATIONS IN WATER AND WASTEWATER TREATMENT PLANT OPERATIONS AND MAINTENANCE. THIS DOCUMENT, PART D OF FIVE PARTS, COVERS THE TOPICS OF SLUDGE DEWATERING, SOLIDS DISPOSAL AND EFFLUENT DISPOSAL. IN THIS GUIDE, THE TOPICS AND IDEAS ARE PRESENTED AS A SERIES OF MODULES, ORGANIZED AROUND 16 GENERAL OBJECTIVES COMMON TO ALL PROCESSES. THE MODULE BEGINS WITH A STATEMENT OF PURPOSE WHICH EXPLAINS WHAT THE STUDENT WILL BE STUDYING. NEXT, ALL THE OBJECTIVES OF THE MODULE AND CODE NUMBERS KEYED TO A COMPUTERIZED LIST OF INSTRUCTIONAL RESOURCES ARE LISTED. ALSO INCLUDED IN EACH MODULE ARE A GLOSSARY OF VERBS AND SECTIONS ON LEARNING AND TESTING CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR ACTIVITY AND STUDENT ACTIVITY. RECOMMENDATIONS ON EVALUATION TECHNIQUES ARE INCLUDED. (BT)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG. DEPT. OF ENVIRONMENTAL TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003332

ERIC ACCESSION NUMBER: ED116972

PUBLICATION DATE: SEP 75

TITLE: PLANT OPERATIONS FOR WASTEWATER FACILITIES, VOL. II, PART C. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS.

PERSONAL AUTHOR: STOAKES, K. C.; AND OTHERS

INSTITUTION CODE: BBB06557; BBB12617; BBB12618

DESCRIPTOR: EDUCATIONAL OBJECTIVES; ENVIRONMENTAL EDUCATION; *POST SECONDARY EDUCATION; *TEACHING GUIDES; TECHNICAL EDUCATION; *TECHNOLOGY; VOCATIONAL EDUCATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; *SEWAGE TREATMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$4.43 PLUS POSTAGE

DESCRIPTIVE NOTE: 92P.; FOR RELATED DOCUMENTS, SEE SE 020 265-269

ISSUE: RIEMAY76

ABSTRACT: THIS INSTRUCTOR'S GUIDE, DESIGNED FOR USE WITH THE CURRICULUM, PLANT OPERATIONS FOR WASTEWATER FACILITIES, REPRESENTS A TWO-YEAR WASTEWATER TECHNOLOGY INSTRUCTIONAL PROGRAM BASED ON PERFORMANCE OBJECTIVES DESIGNED TO PREPARE UNDERGRADUATE STUDENTS TO ENTER OCCUPATIONS IN WATER AND WASTEWATER TREATMENT PLANT OPERATIONS AND MAINTENANCE. THIS DOCUMENT, PART C OF FIVE PARTS, COVERS THE TOPICS OF THICKENING, FIRST STAGE DIGESTION, SECOND STAGE DIGESTION AND SLUDGE CONDITIONING. IN THIS GUIDE, THE TOPICS AND IDEAS ARE PRESENTED AS A SERIES OF MODULES, ORGANIZED AROUND 16 GENERAL OBJECTIVES COMMON TO ALL PROCESSES. THE MODULE BEGINS WITH A STATEMENT OF PURPOSE WHICH EXPLAINS WHAT THE STUDENT WILL BE STUDYING. NEXT, ALL THE OBJECTIVES OF THE MODULE AND CODE NUMBERS KEYED TO A COMPUTERIZED LIST OF INSTRUCTIONAL RESOURCES ARE LISTED. ALSO INCLUDED IN EACH MODULE ARE A GLOSSARY OF VERBS AND SECTIONS ON LEARNING AND TESTING CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR ACTIVITY AND STUDENT ACTIVITY. RECOMMENDATIONS ON EVALUATION TECHNIQUES ARE INCLUDED. (BT)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG. DEPT. OF ENVIRONMENTAL TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003333

ERIC ACCESSION NUMBER: ED116971

PUBLICATION DATE: SEP 75

TITLE: PLANT OPERATIONS FOR WASTEWATER FACILITIES, VOL. II, PART B. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS.

PERSONAL AUTHOR: STOAKES, K. C.; AND OTHERS

INSTITUTION CODE: BBB06557; BBB12617; BBB12618

DESCRIPTOR: EDUCATIONAL OBJECTIVES; ENVIRONMENTAL EDUCATION; *POST SECONDARY EDUCATION; *TEACHING GUIDES; TECHNICAL EDUCATION; *TECHNOLOGY; VOCATIONAL EDUCATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; *SEWAGE TREATMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$4.43 PLUS POSTAGE

DESCRIPTIVE NOTE: 94P.; FOR RELATED DOCUMENTS, SEE SE 020 265-269

ISSUE: RIEMAY76

ABSTRACT: THIS INSTRUCTOR'S GUIDE, DESIGNED FOR USE WITH THE CURRICULUM, PLANT OPERATIONS FOR WASTEWATER FACILITIES, REPRESENTS A TWO-YEAR WASTEWATER TECHNOLOGY INSTRUCTIONAL PROGRAM BASED ON PERFORMANCE OBJECTIVES DESIGNED TO PREPARE UNDERGRADUATE STUDENTS TO ENTER OCCUPATIONS IN WATER AND WASTEWATER TREATMENT PLANT OPERATIONS AND MAINTENANCE. THIS DOCUMENT, PART B OF FIVE PARTS, COVERS THE TOPICS OF TRICKLING FILTRATION, AERATION, SECONDARY SEDIMENTATION AND POND STABILIZATION. IN THIS GUIDE, THE TOPICS AND IDEAS ARE PRESENTED AS A SERIES OF MODULES, ORGANIZED AROUND 16 GENERAL OBJECTIVES COMMON TO ALL PROCESSES. THE MODULE BEGINS WITH A STATEMENT OF PURPOSE WHICH EXPLAINS WHAT THE STUDENT WILL BE STUDYING. NEXT, ALL THE OBJECTIVES OF THE MODULE AND CODE NUMBERS KEYED TO A COMPUTERIZED LIST OF INSTRUCTIONAL RESOURCES ARE LISTED. ALSO INCLUDED IN EACH MODULE ARE A GLOSSARY OF VERBS AND SECTIONS ON LEARNING AND TESTING CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR ACTIVITY AND STUDENT ACTIVITY. RECOMMENDATIONS ON EVALUATION TECHNIQUES ARE INCLUDED. (BT)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG. DEPT. OF ENVIRONMENTAL TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003334

ERIC ACCESSION NUMBER: ED116970

PUBLICATION DATE: SEP 75

TITLE: PLANT OPERATIONS FOR WASTEWATER FACILITIES, VOL. II, PART A. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS.

PERSONAL AUTHOR: STOAKES, K. C.; AND OTHERS

INSTITUTION CODE: BBB06557; BBB12617; BBB12618

DESCRIPTOR: EDUCATIONAL OBJECTIVES; ENVIRONMENTAL EDUCATION; *POST SECONDARY EDUCATION; *TEACHING GUIDES; TECHNICAL EDUCATION; *TECHNOLOGY; VOCATIONAL EDUCATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; *SEWAGE TREATMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$5.70 PLUS POSTAGE

DESCRIPTIVE NOTE: 113P.; FOR RELATED DOCUMENTS, SEE SE 020 266-269

ISSUE: RIEMAY76

ABSTRACT: THIS INSTRUCTOR'S GUIDE, DESIGNED FOR USE WITH THE CURRICULUM, PLANT OPERATIONS FOR WASTEWATER FACILITIES, REPRESENTS A TWO-YEAR WASTEWATER TECHNOLOGY INSTRUCTIONAL PROGRAM BASED ON PERFORMANCE OBJECTIVES DESIGNED TO PREPARE UNDERGRADUATE STUDENTS TO ENTER OCCUPATIONS IN WATER AND WASTEWATER TREATMENT PLANT OPERATIONS AND MAINTENANCE. THIS DOCUMENT, PART A OF FIVE PARTS, COVERS THE TOPICS OF COLLECTION, CHLORINATION, SCREENING AND GRINDING, GRIT REMOVAL AND PRIMARY SEDIMENTATION. IN THIS GUIDE, THE TOPICS AND IDEAS ARE PRESENTED AS A SERIES OF MODULES, ORGANIZED AROUND 16 GENERAL OBJECTIVES COMMON TO ALL PROCESSES. THE MODULE BEGINS WITH A STATEMENT OF PURPOSE WHICH EXPLAINS WHAT THE STUDENT WILL BE STUDYING. NEXT, ALL THE OBJECTIVES OF THE MODULE AND CODE NUMBERS KEYED TO A COMPUTERIZED LIST OF INSTRUCTIONAL RESOURCES ARE LISTED. ALSO INCLUDED IN EACH MODULE ARE A GLOSSARY OF VERBS AND SECTIONS ON LEARNING AND TESTING CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR ACTIVITY AND STUDENT ACTIVITY. RECOMMENDATIONS ON EVALUATION TECHNIQUES ARE INCLUDED. (BT)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.; ENVIRONMENTAL PROTECTION

AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG. DEPT. OF ENVIRONMENTAL TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003335

ERIC ACCESSION NUMBER: ED116934

PUBLICATION DATE: MAY 75

TITLE: EFFECTS OF MAN'S ACTIVITIES ON THE MARINE ENVIRONMENT; COMMITTEE ON COMMERCE, UNITED STATES SENATE, NINETY-FOURTH CONGRESS, FIRST SESSION. COMMITTEE PRINT.

INSTITUTION CODE: BBB06326

DESCRIPTOR: ECOLOGY; *ENVIRONMENT; *LEGISLATION; MARINE BIOLOGY; *OCEAN ENGINEERING; OCEANOLOGY; POLLUTION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; UNITED NATIONS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTIVE NOTE: 135P.; MARGINAL LEGIBILITY THROUGHOUT ENTIRE DOCUMENT

ISSUE: RIEMAY76

ABSTRACT: THIS REPORT, PREPARED FOR THE COMMITTEE ON COMMERCE AND THE NATIONAL OCEAN POLICY STUDY COMMITTEE, DESCRIBES MANY ASPECTS OF WATER POLLUTION, BOTH NATIONAL AND INTERNATIONAL. SPECIFIC SECTIONS ARE DEVOTED TO: (1) ASSESSING MAN'S INFLUENCE ON THE OCEANS, (2) ACTIVITIES THAT GENERATE MARINE POLLUTION, (3) SPECIFIC MARINE POLLUTANTS, (4) POLICY FOR CONTROLLING POLLUTION, (5) NONGOVERNMENTAL INTERNATIONAL ORGANIZATIONS CONCERNED WITH MARINE POLLUTION, (6) UNILATERAL, BILATERAL, AND MULTILATERAL ACTIVITIES FOR CONTROLLING OCEAN POLLUTION, (7) U.N. ACTIVITIES FOR CONTROLLING OCEAN POLLUTION, (8) U.S. ACTIVITIES FOR CONTROLLING OCEAN POLLUTION, AND (9) TECHNOLOGY FOR ABATING OCEAN POLLUTION. (CP)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (Y4.C73/2:M33/4, $1.55); ERIC/SMEAC, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OHIO 43212 (ON LOAN)

INSTITUTION NAME: CONGRESS OF THE U.S., WASHINGTON, D.C. SENATE COMMITTEE ON COMMERCE.

IRIS ACCESSION NUMBER: EW003336

ERIC ACCESSION NUMBER: ED101949

PUBLICATION DATE: NOV 71

TITLE: SOIL AND WATER CONSERVATION ACTIVITIES FOR SCOUTS.

INSTITUTION CODE: BBB03961

DESCRIPTOR: AGRICULTURE; *CONSERVATION EDUCATION; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; NATURAL RESOURCES; OUTDOOR EDUCATION; SCIENCE EDUCATION; *SOIL CONSERVATION; SOIL SCIENCE; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.95 PLUS POSTAGE

DESCRIPTIVE NOTE: 32P.

ISSUE: RIEJUN75

ABSTRACT: THE PURPOSE OF THE LEARNING ACTIVITIES OUTLINED IN THIS BOOKLET IS TO HELP SCOUTS UNDERSTAND SOME CONSERVATION PRINCIPLES WHICH HOPEFULLY WILL LEAD TO THE DEVELOPMENT OF AN ATTITUDE OF CONCERN FOR THE ENVIRONMENT AND A COMMITMENT TO HELP WITH THE TASK OF USING AND MANAGING SOIL, WATER, AND OTHER NATURAL RESOURCES FOR LONG RANGE NEEDS AS WELL AS IMMEDIATE BENEFITS. THE CONSERVATION ACTIVITIES INCLUDE SUCH TOPICS AS MAKING SOIL ARTIFICIALLY, SOIL PARTICLE SIZE, WATER ABSORPTION IN SOILS, ORGANIC MATTER, STREAM SEDIMENTATION, LIFE IN THE SOIL, CAPILLARY ACTION, MULCHING AND SOIL COVER, CONTOURING, FIELD SLOPE, AND FERTILIZERS. A DISCUSSION OF THE UNITED STATES DEPARTMENT OF AGRICULTURE'S SCOUT COUNCIL CONSERVATION AWARDS CONCLUDES THIS BOOKLET. (BT)

REPORT NUMBER: PA-978

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NO. 0100-1427, $0.25)

INSTITUTION NAME: SOIL CONSERVATION SERVICE (DOA), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003337

ERIC ACCESSION NUMBER: ED101422

PUBLICATION DATE: SEP 69

TITLE: PLANNING FOR ENVIRONMENTAL QUALITY. EXCHANGE BIBLIOGRAPHY NO. 97.

PERSONAL AUTHOR: HAGEVIK, GEORGE

INSTITUTION CODE: BBB03813

DESCRIPTOR: AIR POLLUTION CONTROL; *BIBLIOGRAPHIES; CONSERVATION (ENVIRONMENT); COST EFFECTIVENESS; ECOLOGICAL FACTORS; ECOLOGY; *ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL INFLUENCES; *PLANNING; PUBLIC POLICY; *QUALITY CONTROL; STANDARDS; SYSTEMS ANALYSIS; WASTE DISPOSAL; WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.58 PLUS POSTAGE

DESCRIPTIVE NOTE: 14P.

ISSUE: RIEJUN75

ABSTRACT: THIS IS A SURVEY BIBLIOGRAPHY DESIGNED TO FAMILIARIZE THOSE INTERESTED IN PLANNING WITH THE PROBLEMS, ISSUES, INSTITUTIONAL CONTEXTS, AND SUBSTANTIVE CONTENT OF THE BROAD AREA OF PLANNING THAT AFFECTS ASPECTS OF THE PHYSICAL ENVIRONMENT WHOSE MODIFICATION BY MAN HAS SIGNIFICANT EFFECTS ON SOCIAL WELFARE. THE BIBLIOGRAPHY IS ORGANIZED IN THREE PARTS: (1) THE NATURE OF THE DECISIONMAKING MILIEU AND PROCESS, (2) VARIOUS APPROACHES TO THIS MILIEU AND PROCESS, AND (3) THE EXAMINATION OF SPECIFIC ENVIRONMENTAL PROBLEMS. (AUTHOR/MLF)

AVAILABILITY: COUNCIL OF PLANNING LIBRARIANS, P.O. BOX 229, MONTICELLO, ILLINOIS 61856 ($1.50)

INSTITUTION NAME: COUNCIL OF PLANNING LIBRARIANS, MONTICELLO, ILL.

IRIS ACCESSION NUMBER: EW003338

ERIC ACCESSION NUMBER: ED100708

PUBLICATION DATE: DEC 73

TITLE: ABSTRACT REPORTS: STUDENT-ORIGINATED STUDIES PROJECTS, 1973.

PERSONAL AUTHOR: HILL, BERTON F., ED.

INSTITUTION CODE: FGK57295

DESCRIPTOR: *ABSTRACTS; COLLEGE STUDENTS; *ENVIRONMENTAL RESEARCH; HEALTH; *RESEARCH; SCIENCE EDUCATION; *SCIENCES; *STUDENT PROJECTS; STUDENT RESEARCH; WATER POLLUTION CONTROL; NATIONAL SCIENCE FOUNDATION; NSF; RESEARCH REPORTS

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$14.59 PLUS POSTAGE

DESCRIPTIVE NOTE: 288P.; PRESENTED AT THE PROJECT REPORTING MEETING (WASHINGTON, D.C., DECEMBER 26-29, 1973)

ISSUE: RIEMAY75

ABSTRACT: PRESENTED IS A COLLECTION OF RESEARCH REPORTS OF COLLEGE-AGE INVESTIGATORS. THE WORK OF THE STUDENTS DEMONSTRATES ONE WAY IN WHICH RELIABLE AND ILLUMINATING DATA ON LOCAL PROBLEMS OF SOCIETAL IMPORTANCE CAN BE GATHERED AND ANALYZED IN RELATIVELY SHORT TIME-SPANS FOR VERY LITTLE MONEY. WATER-RELATED STUDIES, HEALTH-RELATED AND BASIC ENVIRONMENTAL STUDIES ARE PRESENTED IN ABSTRACT FORM. INCLUDED IN EACH PAPER ARE THE COLLEGE IN WHICH THE STUDENT INVESTIGATORS WERE ENROLLED, THE PARTICIPANTS IN EACH PARTICULAR RESEARCH ENDEAVOR, THE STUDENT PROJECT DIRECTOR, AND FACULTY ADVISOR. (EB)

REPORT NUMBER: NSF-74-33

INSTITUTION NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003339

ERIC ACCESSION NUMBER: ED099237

PUBLICATION DATE: 74

TITLE: WATER QUALITY UNIT, EDMONDS SCHOOL DISTRICT.

INSTITUTION CODE: BBB00159

DESCRIPTOR: CONSERVATION EDUCATION; *ECOLOGY; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; LEARNING ACTIVITIES; NATURAL RESOURCES; OUTDOOR EDUCATION; POLLUTION; SCIENCE EDUCATION; *SECONDARY GRADES; SOCIAL STUDIES; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$6.97 PLUS POSTAGE

DESCRIPTIVE NOTE: 130P.

ISSUE: RIEAPR75

ABSTRACT: THIS INTERDISCIPLINARY PROGRAM, DEVELOPED FOR SECONDARY STUDENTS, CONTAINS 20 WATER QUALITY ACTIVITIES THAT CAN EITHER BE USED DIRECTLY IN, OR AS A SUPPLEMENT TO, CURRICULUM IN SCIENCE, HOME ECONOMICS AND INDUSTRIAL ARTS, MATHEMATICS, HEALTH, ENGLISH, AND SOCIAL STUDIES. THE TOPICS INVESTIGATED INCLUDE: POLLUTION ANALYSIS, INDUSTRIAL NEED, WATERBORNE DISEASES, SUPPLY AND DEMAND, QUALITY PREDICTION AND ANALYSIS, STREAM VOLUME AND HUMAN NEED, AND WATER CONSERVATION. EACH LEARNING ACTIVITY INCLUDES: SUBJECT AREA AND GRADE LEVEL FOR WHICH IT CAN BE USED, LEVEL VI OBJECTIVES, ESTIMATED TIME TO PREPARE FOR AND PERFORM THE ACTIVITY, BACKGROUND INFORMATION FOR THE TEACHER AND A LISTING OF MATERIALS NEEDED. A LIST OF AUDIO-VISUAL AIDS IS INCLUDED, WHERE APPLICABLE, AND A WATER POLLUTION BIBLIOGRAPHY IS ATTACHED. (BT)

INSTITUTION NAME: EDMONDS SCHOOL DISTRICT 15, LYNNWOOD, WASH.

IRIS ACCESSION NUMBER: EW003340

ERIC ACCESSION NUMBER: ED099225

PROGRAM AREA: 88

PUBLICATION DATE: 73

TITLE: HYDROLOGY OF SOUTHEAST FLORIDA AND ASSOCIATED TOPICS.

PERSONAL AUTHOR: MONSOUR, WILLIAM, COMP.; MOYER, MAUREEN, COMP.

INSTITUTION CODE: BBB04569

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CITIZEN PARTICIPATION; CONSERVATION EDUCATION; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; POLLUTION; PUBLIC AFFAIRS EDUCATION; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; *WATER RESOURCES; ELEMENTARY

SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III; *FLORIDA

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$9.51 PLUS POSTAGE

DESCRIPTIVE NOTE: 179P.

ISSUE: RIEAPR75

ABSTRACT: THIS BOOKLET DEALS WITH THE HYDROLOGY OF SOUTHEASTERN FLORIDA. IT IS DESIGNED TO PROVIDE THE CITIZEN, TEACHER, OR STUDENT WITH HYDROLOGICAL INFORMATION, TO PROMOTE AN UNDERSTANDING OF WATER RESOURCES, AND TO INITIATE CONSERVATION PRACTICES WITHIN FLORIDA COMMUNITIES. THE COLLECTION OF ARTICLES WITHIN THE BOOKLET DEAL WITH FLORIDA WATER RESOURCES AND FLORIDA WATER PROBLEMS, BUT MUCH OF THE INFORMATION IS APPLICABLE TO OTHER AREAS. TOPICS SUCH AS THE HYDROLOGIC CYCLE, GROUND WATER AQUIFERS, WATER RESOURCES AND DEMANDS, WATER QUALITY, THE EVERGLADES, AND WATER-LIFE ARE COVERED, ACCOMPANIED BY MAPS, DIAGRAMS, TABLES, AND ILLUSTRATIONS. THE ARTICLES ARE WRITTEN BY VARIOUS PEOPLE--ENGINEERS, ENVIRONMENTALISTS, RESEARCHERS--OR ARE EXCERPTS FROM PUBLICATIONS OR SPEECHES AND PRESENT DIFFERENT VIEWPOINTS ON CONTROVERSIAL ISSUES. A BRIEF HISTORICAL OVERVIEW OF THE HYDROLOGY OF FLORIDA, A GLOSSARY, AND REFERENCE LIST ARE ALSO INCLUDED. (TK)

INSTITUTION NAME: BROWARD COUNTY SCHOOL BOARD, FORT LAUDERDALE, FLA.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003341

ERIC ACCESSION NUMBER: ED099224

PROGRAM AREA: 88

PUBLICATION DATE: 73

TITLE: EUTROPHICATION, A NATURAL PROCESS.

PERSONAL AUTHOR: MONSOUR, WILLIAM

INSTITUTION CODE: BBB04569

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CONSERVATION EDUCATION; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; LANGUAGE ARTS; NATURAL RESOURCES; *SCIENCE EDUCATION; SECONDARY EDUCATION; SOCIAL STUDIES; *TEACHING GUIDES; UNIT PLAN; *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III; EUTROPHICATION

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.58 PLUS POSTAGE

DESCRIPTIVE NOTE: 21P.

ISSUE: RIEAPR75

ABSTRACT: THIS ENVIRONMENTAL EDUCATION LEARNING UNIT DEALS WITH THE TOPIC OF EUTROPHICATION. THE UNIT IS DESIGNED TO ALLOW SECONDARY TEACHERS OF SCIENCE, LANGUAGE ARTS, AND SOCIAL STUDIES TO USE IT AS SUPPLEMENTARY MATERIAL IN THEIR CLASSROOM. TEACHER INFORMATION, UNIT OBJECTIVES, THE UNIT TEXT, AND APPENDICES ARE INCLUDED. THE TEACHER INFORMATION SECTION PROVIDES THE TEACHER WITH DIRECTIONS AND SUGGESTIONS FOR USE OF THE UNIT. THE OBJECTIVE AROUND WHICH THE UNIT IS DESIGNED IS TO PROVIDE THE STUDENT WITH INFORMATION, KNOWLEDGE, AND DATA ON EUTROPHICATION. THE UNIT REFLECTS THE OBJECTIVE, CONSISTING OF A TEXT WHICH DEALS WITH THE FORMATION OF LAKES, THE EFFECTS OF NUTRIENTS, TIME, AND SEDIMENTATION ON THE PROCESS OF EUTROPHICATION, AND THE CAUSES AND EFFECTS OF CULTURAL EUTROPHICATION. A DIAGRAM OF FACTORS AFFECTING THE EUTROPHICATION OF LAKES, A LIST OF ESSENTIAL ALGAL NUTRIENTS, A MULTIPLE CHOICE PRE-POST TEST AND KEY, AND A BIBLIOGRAPHY ARE INCLUDED IN THE APPENDICES. (TK)

INSTITUTION NAME: BROWARD COUNTY SCHOOL BOARD, FORT LAUDERDALE, FLA.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003342

ERIC ACCESSION NUMBER: ED098292

PUBLICATION DATE: 74

TITLE: SOIL WATER: ADVANCED CROP AND SOIL SCIENCE. A COURSE OF STUDY.

PERSONAL AUTHOR: MILLER, LARRY E.

INSTITUTION CODE: BBB00551; BBB16987

DESCRIPTOR: *AGRICULTURAL EDUCATION; AGRONOMY; BEHAVIORAL OBJECTIVES; CONSERVATION (ENVIRONMENT); COURSE CONTENT; COURSE DESCRIPTIONS; *CURRICULUM GUIDES; ECOLOGICAL FACTORS; ECOLOGY; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LESSON PLANS; NATURAL RESOURCES; POST SECONDARY EDUCATION; SECONDARY EDUCATION; *SOIL SCIENCE; *WATER RESOURCES; VIRGINIA

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.95 PLUS POSTAGE

DESCRIPTIVE NOTE: 45P.; FOR RELATED COURSES OF STUDY, SEE CE 002 333-336 AND CE 003 222

ISSUE: RIEAPR75

ABSTRACT: THE COURSE OF STUDY REPRESENTS THE FOURTH OF SIX MODULES IN ADVANCED CROP AND SOIL SCIENCE AND INTRODUCES THE AGRICULTURE STUDENT TO THE TOPIC OF SOIL WATER. UPON COMPLETING THE THREE DAY MODULE, THE STUDENT WILL BE ABLE TO CLASSIFY WATER AS TO ITS PRESENCE IN THE SOIL, OUTLINE THE HYDROLOGICAL CYCLE, LIST THE WAYS WATER IS LOST FROM THE SOIL, DEFINE LEACHING AND ITS MEASUREMENT, LIST MEANS OF CONTROLLING EVAPORATION, AND APPLY THE BASIC PRINCIPLES CONCERNING SOIL WATER TO MANAGEMENT SITUATIONS. THE COURSE OUTLINE SUGGESTS TEACHING PROCEDURES, BEHAVIORAL OBJECTIVES, TEACHING AIDS AND REFERENCES, PROBLEMS, SUMMARY, AND EVALUATION. FOLLOWING THE LESSON PLANS, PAGES ARE CODED FOR USE AS HANDOUTS AND OVERHEAD TRANSPARENCIES. A MATERIALS SOURCE LIST FOR THE COMPLETE SOIL MODULE IS INCLUDED. (MW)

INSTITUTION NAME: VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. AGRICULTURAL EDUCATION PROGRAM.; VIRGINIA STATE DEPT. OF EDUCATION, RICHMOND. AGRICULTURAL EDUCATION SERVICE.

IRIS ACCESSION NUMBER: EW003343

ERIC ACCESSION NUMBER: ED097442

PUBLICATION DATE: 73

TITLE: UTILITIESMAN 3 AND 2. RATE TRAINING MANUAL. REVISED 1973.

INSTITUTION CODE: BBB08861

DESCRIPTOR: AIR CONDITIONING; *EQUIPMENT MAINTENANCE; FUELS; HEATING; *MILITARY TRAINING; PHYSICAL ENVIRONMENT; PLUMBING; REFRIGERATION; SANITARY FACILITIES; *UTILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$ 1.08 HC-$33.64 PLUS POSTAGE

DESCRIPTIVE NOTE: 658P.

ISSUE: RIEMAR75

ABSTRACT: THIS RATE TRAINING MANUAL PROVIDES THE TECHNICAL KNOWLEDGE AND SKILL REQUIREMENTS NECESSARY TO PREPARE UTILITIESMEN TO PERFORM TASKS INVOLVED IN THE INSTALLATION, MAINTENANCE, AND REPAIR OF PLUMBING, HEATING, STEAM, FUEL STORAGE AND DISTRIBUTION SYSTEMS, WATER TREATMENT AND DISTRIBUTION SYSTEMS, AIR CONDITIONING AND REFRIGERATION EQUIPMENT, AND SEWAGE COLLECTING AND DISPOSAL FACILITIES. (AUTHOR)

REPORT NUMBER: NAVTRA-10656-F

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 0502-053-2810)

INSTITUTION NAME: NAVAL TRAINING COMMAND, PENSACOLA, FLA.

IRIS ACCESSION NUMBER: EW003344

ERIC ACCESSION NUMBER: ED115818

PROGRAM AREA: 95

PUBLICATION DATE: 75

TITLE: AN EMPIRICAL DETERMINATION OF TASKS ESSENTIAL TO SUCCESSFUL PERFORMANCE AS A CHEMICAL APPLICATOR. DETERMINATION OF A COMMON CORE OF BASIC SKILLS IN AGRIBUSINESS AND NATURAL RESOURCES.

PERSONAL AUTHOR: MILLER, DANIEL R.; AND OTHERS

INSTITUTION CODE: RUF67405; RUF67425

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *AGRICULTURAL CHEMICAL OCCUPATIONS; AGRICULTURAL EDUCATION; FERTILIZERS; HERBICIDES; JOB ANALYSIS; *JOB SKILLS; *OCCUPATIONAL INFORMATION; OCCUPATIONAL SURVEYS; OFF FARM AGRICULTURAL OCCUPATIONS; PESTICIDES; TABLES (DATA); *TASK ANALYSIS; VOCATIONAL EDUCATION; *AGRICULTURAL CHEMICAL APPLICATORS

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.58 PLUS POSTAGE

DESCRIPTIVE NOTE: 25P.; FOR AN EXPLANATION OF THE PROJECT, SEE CE 005 614-615, AND FOR THE OTHER OCCUPATIONS, SEE CE 005 616-643

ISSUE: RIEMAY76

ABSTRACT: TO IMPROVE VOCATIONAL EDUCATIONAL PROGRAMS IN AGRICULTURE, OCCUPATIONAL INFORMATION ON A COMMON CORE OF BASIC SKILLS WITHIN THE OCCUPATIONAL AREA OF THE CHEMICAL APPLICATOR IS PRESENTED IN THE REVISED TASK INVENTORY SURVEY. THE PURPOSE OF THE OCCUPATIONAL SURVEY WAS TO IDENTIFY A COMMON CORE OF BASIC SKILLS WHICH ARE PERFORMED AND ARE ESSENTIAL FOR SUCCESS IN THE OCCUPATION. OBJECTIVES WERE ACCOMPLISHED BY CONSTRUCTING AN INITIAL TASK INVENTORY TO IDENTIFY DUTY AREAS AND TASK STATEMENTS FOR THE OCCUPATION. THE INITIAL TASK INVENTORY WAS REVIEWED BY CONSULTANTS IN THE FIELD, AND 199 TASKS WERE IDENTIFIED. A RANDOM SAMPLE OF 75 BUSINESSES APPLYING CHEMICALS FOR AGRICULTURAL PURPOSES BASED ON THE 1975 OHIO PESTICIDE APPLICATORS AND OPERATORS DIRECTORY WAS OBTAINED. DATA WERE COLLECTED UTILIZING EMPLOYER AND EMPLOYEE QUESTIONNAIRES. FIFTY QUESTIONNAIRES WERE RETURNED OF WHICH 47 WERE USABLE. A COMPILATION OF BASIC SAMPLE BACKGROUND INFORMATION IS PRESENTED ON SIZE OF BUSINESS, TOTAL WORK EXPERIENCE, EMPLOYMENT AT CURRENT JOB, AND PREPARATION AS A CHEMICAL APPLICATOR. A COMPILATION OF DUTY AREAS OF WORK PERFORMED AND WORK ESSENTIAL FOR THE OCCUPATION IS GIVEN. PERCENTAGE PERFORMANCE BY INCUMBENT WORKERS AND THE AVERAGE LEVEL OF IMPORTANCE OF SPECIFIC TASK STATEMENTS ARE PRESENTED IN TABULAR FORM. (AUTHOR/EC)

GRANT NUMBER: OEG-0-74-1716

BUREAU NUMBER: V0033VZ

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. DEPT. OF AGRICULTURAL EDUCATION.; OHIO STATE UNIV., COLUMBUS. RESEARCH FOUNDATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003345

ERIC ACCESSION NUMBER: ED097208

PUBLICATION DATE: 72

TITLE: PATTERNS AND PERSPECTIVES IN ENVIRONMENTAL SCIENCE.

INSTITUTION CODE: BBB02233

DESCRIPTOR: *CLIMATIC FACTORS; ECOLOGICAL FACTORS; *ECOLOGY; ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; *NATURAL RESOURCES; NATURAL SCIENCES; *SCIENTIFIC ENTERPRISE; WATER RESOURCES; *NATIONAL SCIENCE BOARD

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$19.80 PLUS POSTAGE

DESCRIPTIVE NOTE: 420P.; SUPPLEMENT TO ED 058 046

ISSUE: RIEFEB75

ABSTRACT: THIS REPORT, A SUPPLEMENT TO THE THIRD ANNUAL REPORT OF THE NATIONAL SCIENCE BOARD, "ENVIRONMENTAL SCIENCE, CHALLENGE FOR THE SEVENTIES," CONTAINS MUCH OF THE INFORMATION AND INTERPRETATION THAT FORMED THE BASIS FOR THE CONCLUSIONS AND RECOMMENDATIONS OF THE ANNUAL REPORT. IT ASSEMBLES THE VIEWS AND JUDGMENTS OF LEADING ENVIRONMENTAL SCIENTISTS ON A VARIETY OF ENVIRONMENTAL TOPICS IN AN EFFORT TO ASSESS AVAILABLE DATA, THEORETICAL FORMULATIONS AND THE CURRENT STATUS OF ENVIRONMENTAL KNOWLEDGE INCLUDING THE FIELD'S POTENTIAL TO RESPOND TO SOCIETY'S CONCERN ABOUT THE ENVIRONMENT. AMONG THE SPECIFIC TOPICS ARE STATEMENTS ON EARTHQUAKES, VOLCANOES, CLIMATE CHANGE, THE ATMOSPHERE-OCEAN SYSTEM, STORMS, PRECIPITATION, WATER RESOURCES, AQUATIC ECOSYSTEMS, TERRESTRIAL ECOSYSTEMS, CONTAMINANTS AND HUMAN ADAPTATION TO ENVIRONMENTAL STRESS. THERE IS AN APPENDIX CONTAINING A REPRINT OF THE SUMMARY AND RECOMMENDATIONS OF THE THIRD ANNUAL REPORT AND A SECTION OF SELECTED REFERENCES. (MLB)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C. 20402 (STOCK NUMBER 3800-00147, $7.30)

INSTITUTION NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C. NATIONAL SCIENCE BOARD.

IRIS ACCESSION NUMBER: EW003346

ERIC ACCESSION NUMBER: ED096140

PUBLICATION DATE: 30 JUN 73

TITLE: TESTING WATER FOR BACTERIAL POLLUTION.

PERSONAL AUTHOR: DILLNER, HARRY

INSTITUTION CODE: BBB08747; EYV20775

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: *AUTOINSTRUCTIONAL PROGRAMS; BIOLOGY; *ECOLOGY; INSTRUCTION; INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE; TEACHER DEVELOPED MATERIALS; UNITS OF STUDY (SUBJECT FIELDS); *WATER POLLUTION CONTROL; *DEL MOD SYSTEM

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 13P.

ISSUE: RIEJAN75

ABSTRACT: THIS AUTOINSTRUCTIONAL LESSON DEALS WITH THE STUDY OF WATER POLLUTION CONTROL. IT IS A LEARNING ACTIVITY DIRECTED TOWARD HIGH SCHOOL STUDENTS OF BIOLOGY AND/OR ECOLOGY. A GENERAL KNOWLEDGE OF MICROBIOLOGY TECHNIQUES IS REGARDED AS A PREREQUISITE FOR THE LESSON. BEHAVIORAL OBJECTIVES ARE GIVEN. EMPHASIS IS PLACED ON USE OF TECHNIQUES AND MATERIALS TO TEST FOR AND IDENTIFY SPECIFIC BACTERIA. ONE HOUR IS CONSIDERED AS THE MINIMUM TIME NEEDED FOR THE ACTIVITY. THE INSTRUCTIONAL PACKET INCLUDES A LIST OF EQUIPMENT NEEDED, THE TYPE OF SPACE REQUIRED, AND A BIBLIOGRAPHY. A CALCULATION CHART, A CLEANUP PROCEDURE SHEET, AND A STUDENT EVALUATION FORM ARE INCLUDED WITH THE STUDENT SCRIPT. (EB)

REPORT NUMBER: NSF-GW-6703

INSTITUTION NAME: DELAWARE STATE DEPT. OF PUBLIC INSTRUCTION, DOVER.; DEL MOD SYSTEM, DOVER, DEL.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003347

ERIC ACCESSION NUMBER: ED096137

PUBLICATION DATE: 30 JUN 73

TITLE: WATER POLLUTION.

PERSONAL AUTHOR: HENDERSON, PAULA

INSTITUTION CODE: BBB08747; EYV20775

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: AUTOINSTRUCTIONAL PROGRAMS; BIOLOGY; INSTRUCTION; *INSTRUCTIONAL MATERIALS; LOW ABILITY STUDENTS; POLLUTION; SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE; TEACHER DEVELOPED MATERIALS; UNITS OF STUDY (SUBJECT FIELDS); *WATER POLLUTION CONTROL; *DEL MOD SYSTEM

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 11P.

ISSUE: RIEJAN75

ABSTRACT: THIS AUTOINSTRUCTIONAL PROGRAM DEALS WITH THE ECOLOGY OF A STREAM. IT IS SUGGESTED AS A LEARNING EXPERIENCE FOR LOW ACHIEVERS IN A HIGH SCHOOL BIOLOGY PROGRAM. TWO BEHAVIORAL OBJECTIVES ARE SUGGESTED AND THE EQUIPMENT NEEDED IS LISTED. THE SCRIPT HAS AN ACCOMPANYING WORKSHEET FOR THE STUDENT AND A SET OF RELATED QUESTIONS TO BE ANSWERED. (EB)

REPORT NUMBER: NSF-GW-6703

INSTITUTION NAME: DELAWARE STATE DEPT. OF PUBLIC INSTRUCTION, DOVER.; DEL MOD SYSTEM, DOVER, DEL.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003348

ERIC ACCESSION NUMBER: ED094979

PUBLICATION DATE: JUL 73

TITLE: ABATEMENT AND POLLUTION CONTROL TRAINING AND EDUCATIONAL PROGRAMS PRESENTED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

INSTITUTION CODE: BBB06039

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENTAL EDUCATION; GOVERNMENT PUBLICATIONS; *INSTITUTES (TRAINING PROGRAMS); INSTITUTE TYPE COURSES; POLLUTION; *PROGRAM DESCRIPTIONS; *WATER POLLUTION CONTROL; ENVIRONMENTAL PROTECTION AGENCY; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 106P.

ISSUE: RIEDEC74

ABSTRACT: THIS CATALOG IS A COMPILATION OF TRAINING COURSE AND EDUCATIONAL PROGRAM DESCRIPTIONS IN ABATEMENT AND POLLUTION CONTROL SCHEDULED BY THE ENVIRONMENTAL PROTECTION AGENCY. DESCRIPTIONS OF PROGRAMS INCLUDE PREREQUISITES, CLASS SIZE, AND LENGTH OF TIME WITH THE CONTENT GOALS. ALSO GIVEN IS GENERAL INFORMATION CONCERNING TUITION FEES, WAIVER REQUESTS, AND APPLICATION FORMS. A MAP SHOWS THE LOCATIONS OF REGIONAL TRAINING CENTERS. (NTIS/LS)

REPORT NUMBER: EPA-430-1-73-009; PB-224-502

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22151 (PB-224-502, MF-$1.45, PC-$7.50)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003349

ERIC ACCESSION NUMBER: ED094959

PUBLICATION DATE: 18 AUG 72

TITLE: REPORT OF THE DIRECTOR-GENERAL ON THE LONG-TERM PROGRAMME IN THE FIELD OF HYDROLOGY.

INSTITUTION CODE: BBB08970

DESCRIPTOR: *CONFERENCE REPORTS; *ENVIRONMENTAL EDUCATION; INTERNATIONAL PROGRAMS; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; *WATER RESOURCES; HYDROLOGY; IHD; INTERNATIONAL HYDROLOGICAL DECADE

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 31P.; ITEM 13.3 OF THE PROVISIONAL AGENDA; GENERAL CONFERENCE 17 C/68

ISSUE: RIEDEC74

ABSTRACT: THE REPORT DESCRIBES THE PRINCIPAL ORIENTATIONS OF THE INTERNATIONAL HYDROLOGICAL PROGRAMME, AS WELL AS THE PROCEDURES SUGGESTED FOR ITS EXECUTION. THE ORIGIN AND JUSTIFICATION OF THE PROGRAMME ARE PRESENTED. THE OBJECTIVES OF THE 1975 PROGRAMME ARE STATED AND THE CONTENTS, WHICH INCLUDE THE ACTIVITIES, THEMES, APPLICATION OF NEW TECHNIQUES IN HYDROLOGY ARE LISTED AND DISCUSSED. THE PROMOTION OF HYDROLOGY TEACHING AND OF PRACTICAL TRAINING OF HYDROLOGISTS IS STRESSED, AND THE ACTIVITIES PLANNED IN THIS SPHERE ARE PRESENTED. RECOMMENDATIONS ON A LONG-TERM PROGRAMME OF INTERNATIONAL COOPERATION IN THE FIELD OF HYDROLOGY ARE DISCUSSED IN THE ANNEX OF THIS PUBLICATION. (EB)

INSTITUTION NAME: UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS (FRANCE). GENERAL CONFERENCE.

IRIS ACCESSION NUMBER: EW003350

ERIC ACCESSION NUMBER: ED093645

PUBLICATION DATE: 71

TITLE: HUNTINGTON II SIMULATION PROGRAM-POLUT. RESOURCE HANDBOOK.

PERSONAL AUTHOR: BRAUN, L.; AND OTHERS

INSTITUTION CODE: BBB05180; QPX07890

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: *COMPUTER ASSISTED INSTRUCTION; COMPUTER PROGRAMS; ECOLOGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *POLLUTION; *SECONDARY GRADES; SIMULATION; UNITS OF STUDY (SUBJECT FIELDS); WASTES; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.; DEVELOPED BY THE HUNTINGTON COMPUTER PROJECT

ISSUE: RIENOV74

ABSTRACT: INSTRUCTIONS FOR USING THE HUNTINGTON II SIMULATION PROGRAM - POLUT ARE CONTAINED IN THIS RESOURCE HANDBOOK. POLUT IS A PROGRAM WRITTEN IN BASIC WHICH PROVIDES SIMULATION OF THE INTERACTION BETWEEN WATER AND WASTE. IT CREATES A CONTEXT WITHIN WHICH THE USER CAN CONTROL SPECIFIC VARIABLES WHICH AFFECT THE QUALITY OF A WATER RESOURCE. THE OUTPUT IS IN BOTH TABLE AND GRAPHICAL FORMS WHICH HELP STUDENTS GAIN INSIGHTS INTO THE INTERACTION OF WATER WITH DUMPED WASTE. FORMULAS FOR CALCULATING VARIABLE EFFECTS ARE EXPLAINED AND A COMPLETE LISTING OF THE PROGRAM IS PROVIDED. PROJECTS THAT MAY BE DEVELOPED AROUND THIS COMPUTER ACTIVITY ARE SUGGESTED AND A LIST OF REFERENCES ARE GIVEN FOR ADDITIONAL RESOURCE MATERIAL ON WATER POLLUTION. (JP)

AVAILABILITY: PROGRAM LIBRARY, DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754 ($0.50)

INSTITUTION NAME: BROOKLYN POLYTECHNIC INST., N.Y.; DIGITAL EQUIPMENT CORP., MAYNARD, MASS.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003351

ERIC ACCESSION NUMBER: ED093644

PUBLICATION DATE: 71

TITLE: HUNTINGTON II SIMULATION PROGRAM-POLUT. TEACHER'S GUIDE.

PERSONAL AUTHOR: BRAUN, L.; AND OTHERS

INSTITUTION CODE: BBB05180; UPX07890

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: *COMPUTER ASSISTED INSTRUCTION; COMPUTER PROGRAMS; ECOLOGY; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *POLLUTION; *SECONDARY GRADES; *SIMULATION; TEACHING GUIDES; UNITS OF STUDY (SUBJECT FIELDS); WASTES; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 7P.; DEVELOPED BY THE HUNTINGTON COMPUTER PROJECT

ISSUE: RIENOV74

ABSTRACT: THIS TEACHER'S GUIDE IS WRITTEN TO ACCOMPANY THE HUNTINGTON II SIMULATION PROGRAM - POLUT. POLUT IS A PROGRAM WRITTEN IN BASIC WHICH PROVIDES SIMULATION OF THE INTERACTION BETWEEN WATER AND WASTE. IT CREATES A CONTEXT WITHIN WHICH THE USER CAN CONTROL SPECIFIC VARIABLES WHICH EFFECT THE QUALITY OF A WATER RESOURCE. THE TEACHER'S GUIDE PROVIDES INFORMATION CONCERNING FEATURES IN THE PROGRAM AND LISTS GOALS AND SUGGESTED TEACHING ACTIVITIES. THIS PACKAGE IS DESIGNED FOR GRADE LEVELS 10 THROUGH 12. (JP)

AVAILABILITY: PROGRAM LIBRARY, DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS 01754 ($0.30)

INSTITUTION NAME: BROOKLYN POLYTECHNIC INST., N.Y.; DIGITAL EQUIPMENT CORP., MAYNARD, MASS.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003352

ERIC ACCESSION NUMBER: ED093660

PUBLICATION DATE: 72

TITLE: CURRICULA AND SYLLABI IN HYDROLOGY.

INSTITUTION CODE: IBG88895

DESCRIPTOR: *COLLEGE STUDENTS; *CURRICULUM GUIDES; *CURRICULUM PLANNING; ENVIRONMENTAL EDUCATION; *SCIENCE CURRICULUM; SCIENCE EDUCATION; TECHNOLOGY; *WATER RESOURCES; HYDROLOGY; INTERNATIONAL HYDROLOGICAL DECADE; WORLD METEOROLOGICAL ORGANIZATION; EDUCATIONAL OBJECTIVES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 71P.; TECHNICAL PAPERS IN HYDROLOGY 10

ISSUE: RIENOV74

ABSTRACT: THIS COLLECTION OF PAPERS IS INTENDED TO PROVIDE A MEANS FOR THE EXCHANGE OF INFORMATION ON HYDROLOGICAL TECHNIQUES AND FOR THE COORDINATION OF RESEARCH AND DATA COLLECTION. THE OBJECTIVES AND TRENDS IN HYDROLOGICAL EDUCATION ARE PRESENTED. THE INTERNATIONAL HYDROLOGICAL DECADE (IHD) WORKING GROUP ON EDUCATION RECOMMENDS A SERIES OF TOPICS THAT MUST BE TAUGHT TO ENSURE A MINIMUM OF THEORETICAL KNOWLEDGE AND ADEQUATE PRACTICAL TRAINING. TWO EXAMPLES OF CURRICULA AND SYLLABI FOR COMPLETE UNDERGRADUATE PROGRAMS IN HYDROLOGY ARE PRESENTED. ONE IS FROM THE U.S.S.R., THE SECOND FROM THE UNITED STATES. POST-GRADUATE EDUCATION IN HYDROLOGY IS DISCUSSED AND THREE TYPES OF PROGRAMS PRESENTED. SELECTED SYLLABI PREPARED BY THE IHD WORKING GROUP ON EDUCATION, BY THE WORLD METEOROLOGICAL ORGANIZATION (WMO) WORKING GROUP ON TRAINING IN HYDROMETEOROLOGY, BY U.S.S.R. EDUCATORS, BY UNITED STATES EDUCATORS AND BY UNESCO ARE PRESENTED IN THE APPENDICES. (EB)

AVAILABILITY: UNESCO, P. O. BOX 433, NEW YORK, NEW YORK 10016 ($4.00)

INSTITUTION NAME: UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS (FRANCE).

IRIS ACCESSION NUMBER: EW003353

ERIC ACCESSION NUMBER: ED093596

PUBLICATION DATE: MAR 73

TITLE: KNOWING AND USING YOUR ENVIRONMENT. ENVIRONMENTAL EDUCATION CURRICULUM.

INSTITUTION CODE: KUJ24608

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM GUIDES; *ECOLOGICAL FACTORS; *ECOLOGY; *ENVIRONMENTAL EDUCATION; *GEOLOGY; INTERMEDIATE GRADES; NATURAL RESOURCES; NATURAL SCIENCES; RECREATION; *WATER RESOURCES; *ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$7.80 PLUS POSTAGE

DESCRIPTIVE NOTE: 173P.

ISSUE: RIENOV74

ABSTRACT: THIS UNIT IS INTENDED TO HELP STUDENTS BECOME AWARE OF OVERALL RELATIONSHIPS AND INTERACTIONS THAT EXIST BETWEEN THE VARIOUS SEGMENTS OF THE ENVIRONMENT. THE UNIT CONSISTS OF FOUR TOPICS: (1) GEOLOGY--THE GEOLOGICAL HISTORY OF THE EARTH AS ILLUSTRATED BY FOSSILS; (2) PLANTS AND ANIMALS--THE ROLE AND INTERACTIONS OF PLANTS AND ANIMALS IN THE ENVIRONMENT; (3) RIVERS AND RESERVOIRS--THE USES, PATTERNS, AND LOCATIONS OF RIVERS AND RESERVOIRS IN KANSAS; AND (4) ARCHERY--AN EXAMPLE OF A NONDESTRUCTIVE RECREATIONAL USE OF THE ENVIRONMENT. FOR EACH TOPIC THERE ARE BEHAVIORAL OBJECTIVES, STUDENT ACTIVITIES, AND TEACHER SUGGESTIONS. TEACHING AIDS ARE FOUND IN THE APPENDIX. (JP)

INSTITUTION NAME: TOPEKA PUBLIC SCHOOLS, KANS.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003354

ERIC ACCESSION NUMBER: ED092378

PUBLICATION DATE: 73

TITLE: POLLUTION. ENVIRONMENTAL EDUCATION INSTRUCTIONAL UNIT. FINAL EDITION.

INSTITUTION CODE: BBB06588

DESCRIPTOR: AIR POLLUTION CONTROL; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; *INTERMEDIATE GRADES; MATHEMATICS EDUCATION; *POLLUTION; SCIENCE EDUCATION; SECONDARY GRADES; SOCIAL STUDIES; UNIT PLAN; WASTES; WATER POLLUTION CONTROL; WORKSHEETS; *NOISE POLLUTION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 45P.; FOR RELATED DOCUMENTS, SEE SE 017 915 AND 917

ISSUE: RIEOCT74

ABSTRACT: THIS UNIT ON POLLUTION IS ONE IN A SERIES OF THREE PREPARED FOR USE IN THE CLASSROOM. AN INTERDISCIPLINARY APPROACH ENCOMPASSING MATHEMATICS, SCIENCE, AND SOCIAL STUDIES IS UTILIZED IN THESE ENVIRONMENTAL UNITS. THE MATERIAL IS DESIGNED FOR MIDDLE GRADES AND ABOVE. MANY ACTIVITIES ARE OPEN-ENDED WITH EACH ACTIVITY IN THIS UNIT EMPHASIZING THE POLLUTION CRISIS. THE UNIT IS DIVIDED INTO MINI-UNITS DEALING WITH AIR, LITTER, NOISE, AND WATER POLLUTION. FOR SOME OF THE MINI-UNITS, STUDENT WORKSHEETS ARE PROVIDED WHICH CAN BE EASILY DUPLICATED. THOUGHT QUESTIONS ARE PRESENTED TO FACILITATE LOGICAL THINKING BASED ON SKILLS AND KNOWLEDGE OF MATHEMATICS, SCIENCE, AND SOCIAL STUDIES. (JP)

INSTITUTION NAME: NORTH CAROLINA STATE DEPT. OF PUBLIC INSTRUCTION, RALEIGH. DIV. OF SCIENCE EDUCATION.

IRIS ACCESSION NUMBER: EW003355

ERIC ACCESSION NUMBER: ED091307

PUBLICATION DATE: 74

TITLE: WATER IN THE MIDDLE EAST, A SECONDARY AND COLLEGE LEVEL MULTI-MEDIA STUDY.

PERSONAL AUTHOR: MANNEBERG, ELIEZER

INSTITUTION CODE: BBB10337

DESCRIPTOR: ANNOTATED BIBLIOGRAPHIES; *AREA STUDIES; AUDIOVISUAL AIDS; CASE STUDIES; COURSE OBJECTIVES; *CROSS CULTURAL STUDIES; HIGHER EDUCATION; *MIDDLE EASTERN STUDIES; QUESTIONING TECHNIQUES; RESOURCE MATERIALS; SECONDARY EDUCATION; STUDY GUIDES; TEACHING METHODS; *WATER RESOURCES; *WORLD EDUCATION PROJECT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 22P.

ISSUE: RIESEP74

ABSTRACT: THE SECONDARY AND COLLEGE LEVEL GUIDE OUTLINES A COURSE OF STUDY ON THE MIDDLE EAST, WITH EMPHASIS ON WATER PROBLEMS OF THE AREA. AMONG THE COURSE OBJECTIVES ARE THE FOLLOWING: (1) MAKE GENERALIZATIONS ABOUT PARTICULAR MIDDLE EASTERN CULTURES AND SUPPORT THEM WITH EVIDENCE; (2) INTERPRET ENVIRONMENTAL AND SOCIAL DATA FROM SPECIFIC MIDDLE EASTERN COUNTRIES; (3) PLAN PROCEDURES FOR DEVISING SOLUTIONS TO SOCIAL PROBLEMS SUCH AS SHARING SCARCE WATER RESOURCES, DIFFUSING EDUCATIONAL OPPORTUNITY, OR RESOLVING CROSS-CULTURAL CONFLICTS WITHIN MIDDLE EASTERN SOCIETIES; AND (4) FORECAST THE DIRECTIONS IN WHICH MIDDLE EASTERN SOCIETIES ARE MOST LIKELY TO MOVE AND HAVE PREFERENCES REGARDING DESIRABLE SOCIAL OBJECTIVES IN THIS AREA.

SUGGESTED TEACHING TECHNIQUES INCLUDE USE OF AUDIO-VISUALS, QUESTIONING TECHNIQUES, CLASSROOM DISCUSSIONS, FIELD TRIPS, AND INTERVIEWS. THE MAJOR PORTION OF THE GUIDE CONSISTS OF CASE STUDIES ON THE UNIVERSALITY OF WATER PROBLEMS AND AMERICAN WATER PROBLEMS; WATER PROBLEMS IN THE MIDDLE EAST; THE NILE RIVER AS A SOURCE OF LIFE FOR EGYPT AND THE SUDAN; AND RECLAIMING THE DESERT IN ISRAEL. A BRIEF INTRODUCTION TO THE TOPIC, TEACHING STRATEGIES, AND AN ANNOTATED LISTING OF AUDIO-VISUAL MEDIA ARE PROVIDED FOR EACH CASE STUDY. PRINT SOURCES OF INFORMATION ON THE MIDDLE EAST, AND EDUCATION OBJECTIVES OF THE COURSE ARE ALSO PROVIDED IN THE GUIDE. (AUTHOR/RM)

INSTITUTION NAME: CONNECTICUT UNIV., STORRS. WORLD EDUCATION PROJECT.

IRIS ACCESSION NUMBER: EW003356

ERIC ACCESSION NUMBER: ED091257

PUBLICATION DATE: 74

TITLE: SOCIETY, ENVIRONMENT, SCIENCE. PROFILES OF PROMISE 21.

PERSONAL AUTHOR: HAWKE, SHARRYL

INSTITUTION CODE: BBB03575; BBB04086

SPONSORING AGENCY CODE: BBB06621

DESCRIPTOR: AIR POLLUTION CONTROL; *COMMUNITY STUDY; COMMUNITY SURVEYS; *EDUCATIONAL INNOVATION; *ENVIRONMENTAL EDUCATION; EVALUATION; GROUP ACTIVITIES; *INTERDISCIPLINARY APPROACH; LAWS; NATURAL RESOURCES; PARTICIPANT INVOLVEMENT; POLLUTION; POPULATION EDUCATION; PUBLIC RELATIONS; *STUDENT PARTICIPATION; WATER POLLUTION CONTROL; *PROFILES OF PROMISE

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 4P.

ISSUE: RIESEP74

ABSTRACT: THE BROCHURE DESCRIBES AN ELEVENTH AND TWELFTH GRADE INTERDISCIPLINARY COURSE IN ENVIRONMENTAL EDUCATION TAUGHT AT LANSDOWNE SENIOR HIGH BALTIMORE, MARYLAND. THE MAJOR OBJECTIVE OF THE COURSE IS TO CREATE REALISTIC AWARENESS OF ENVIRONMENTAL CONDITIONS. TEACHING TECHNIQUES USED INCLUDE INDIVIDUAL AND GROUP PROJECTS, WHICH ARE DETERMINED BY STUDENTS AND TEACHERS FOR EACH TERM. DURING THE THREE YEARS THE SOCIETY, ENVIRONMENT, AND SCIENCE (S.E.S.) COURSE HAS BEEN TAUGHT, THE FOLLOWING INDIVIDUAL REQUIREMENTS HAVE BEEN AGREED UPON BY STUDENTS AND TEACHERS: 1) TO WORK WITHIN THE FRAMEWORK OF AN INDIVIDUAL COMMITTEE; 2) TO BE RESPONSIBLE FOR READING OF GERMANE BOOKS AND ARTICLES; AND 3) TO CONSTRUCT CASE STUDIES INVOLVING SITUATIONS WITHIN THE ENVIRONMENT. COMMITTEE AREAS FROM WHICH A STUDENT CAN CHOOSE ARE AIR, WATER, POPULATION, SURVEY, COMMERCIAL LAW, AND PUBLIC RELATIONS. EACH COMMITTEE MUST MAKE AN AUDIOVISUAL PRESENTATION CONCERNING AN ENVIRONMENTAL SITUATION, INVITE A GUEST TO SPEAK TO THE CLASS ABOUT AN ENVIRONMENTAL CONCERN, PLAN A FIELD TRIP TO A PLACE HAVING ENVIRONMENTAL INTEREST, AND CONDUCT A STUDY OF A LABORATORY COMMUNITY WITHIN THE FRAMEWORK OF THE COMMITTEE PURPOSE. THE COMMITTEE PRESENTS A FINAL COMMUNITY REPORT, WHICH IS OFTENTIMES CIRCULATED TO CITIZENS OF THE COMMUNITY. THE MOST IMPORTANT ACCOMPLISHMENT OF THE S.E.S. PROGRAM IS INCREASED AWARENESS OF ENVIRONMENTAL CONCERNS AMONG THE YOUNG PEOPLE. (AUTHOR/RM)

INSTITUTION NAME: ERIC CLEARINGHOUSE FOR SOCIAL STUDIES/SOCIAL SCIENCE EDUCATION, BOULDER, COLO.; SOCIAL SCIENCE EDUCATION CONSORTIUM, INC., BOULDER, COLO.

SPONSORING AGENCY NAME: NATIONAL INST. OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003358

ERIC ACCESSION NUMBER: ED112253

PUBLICATION DATE: 75

TITLE: AGRICULTURAL PESTICIDES. AN INSTRUCTIONAL UNIT FOR TEACHERS OF ADULT VOCATIONAL EDUCATION IN AGRICULTURE.

PERSONAL AUTHOR: HARRISON, KENNETH M.; IVERSON, MAYNARD J.

INSTITUTION CODE: LBY41707

SPONSORING AGENCY CODE: LBY41580

DESCRIPTOR: *ADULT FARMER EDUCATION; ADULT VOCATIONAL EDUCATION; AGRICULTURAL EDUCATION; *CURRICULUM GUIDES; DISEASE CONTROL; HERBICIDES; INSECTICIDES; INSTRUCTIONAL MATERIALS; *PESTICIDES; RODENTICIDES; TEACHING GUIDES; VOCATIONAL AGRICULTURE; *YOUNG FARMER EDUCATION; KENTUCKY

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$8.24 PLUS POSTAGE

DESCRIPTIVE NOTE: 170P.; FOR RELATED DOCUMENTS, SEE CE 005 271-282; PAGES 145, 146, AND 148 WILL NOT REPRODUCE WELL IN MICROFICHE DUE TO SMALLNESS OF TYPE

ISSUE: RIEFEB76

ABSTRACT: THE PROPER USE OF AGRICULTURAL PESTICIDES IS THE MAJOR EMPHASIS ON THE UNIT OF INSTRUCTION DEVELOPED AS A GUIDE FOR USE BY TEACHERS IN PLANNING AND CONDUCTING YOUNG FARMER AND ADULT FARMER CLASSES. SEVEN LESSONS ARE INCLUDED IN THE UNIT COVERING TOPICAL AREAS RELATED TO THE UTILIZATION OF PESTICIDES, HERBICIDES, INSECTICIDES, FUNGICIDES, AND THE DEVELOPMENT OF A COMPREHENSIVE PEST CONTROL PROGRAM. SUGGESTIONS FOR TEACHING THE LESSONS AND SUGGESTED MATERIALS ARE PRESENTED. TEACHING FORMS AND A UNIT EVALUATION QUESTIONNAIRE ARE PRESENTED. (VA)

REPORT NUMBER: VT-102-057

INSTITUTION NAME: KENTUCKY UNIV., LEXINGTON. DIV. OF VOCATIONAL EDUCATION.

SPONSORING AGENCY NAME: KENTUCKY STATE DEPT. OF EDUCATION, FRANKFORT. BUREAU OF VOCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003359

ERIC ACCESSION NUMBER: ED086489

PUBLICATION DATE: JAN 73

TITLE: A CASE STUDY OF HOGTOWN CREEK: JUSTIFICATION FOR FIELD OBSERVATIONS.

PERSONAL AUTHOR: WEST, FELICIA E.

INSTITUTION CODE: BBB07143

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *FIELD STUDIES; GUIDES; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; OBJECTIVES; TEACHING TECHNIQUES; UNIT PLAN; WATER RESOURCES; CASE STUDIES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 143P.

ISSUE: RIEMAY74

ABSTRACT: A CASE-STUDY MODEL OF A FIELD TRIP TO A SMALL CREEK WAS MADE TO FACILITATE THE USE OF FIELD STUDIES AS A TECHNIQUE FOR INVOLVING STUDENTS AND TEACHERS IN STUDYING THE EARTH AS IT UNDERGOES CHANGE. METHODS AND TECHNIQUES OF PLANNING ARE PRESENTED WHICH INCLUDE FAMILIARIZATION WITH THE AREA BY THE TEACHER, THE DEVELOPMENT OF GOALS AND OBJECTIVES, THE ADMINISTRATIVE AND LOGISTICAL PLANNING, THE PRE-TRIP CLASSROOM ACTIVITIES, THE FIELD TRIP ACTIVITIES, THE FOLLOW-UP ACTIVITIES, AND EVALUATION BY THE STUDENTS. CONSTRUCTION OF DIFFERENT MEASUREMENT TOOLS IS DESCRIBED IN THE ACTIVITIES SECTIONS, AND WORKSHEETS FOR RECORDING AND ANALYZING DATA ARE PRESENTED IN THE APPENDICES. (JP)

REPORT NUMBER: RM-5

AVAILABILITY: P. K. YONGE LABORATORY SCHOOL, UNIVERSITY OF FLORIDA, COLLEGE OF EDUCATION, GAINESVILLE 32601

INSTITUTION NAME: FLORIDA UNIV., GAINESVILLE. P. K. YONGE LAB. SCHOOL.

IRIS ACCESSION NUMBER: EW003360

ERIC ACCESSION NUMBER: ED086482

PUBLICATION DATE: FEB 71

TITLE: HANDBOOK OF TECHNIQUES AND GUIDES FOR THE STUDY OF THE SAN FRANCISCO BAY-DELTA-ESTUARY COMPLEX, PART 1. MONITORING TECHNIQUES FOR THE MEASUREMENT OF PHYSICO-CHEMICAL AND BIOLOGICAL PARAMETERS.

INSTITUTION CODE: CIQ01040; CIO19125

DESCRIPTOR: BIOLOGICAL INFLUENCES; ECOLOGICAL FACTORS; ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL RESEARCH; *GUIDES; *INSTRUCTIONAL MATERIALS; *MARINE BIOLOGY; NATURAL SCIENCES; QUALITY CONTROL; RESOURCE MATERIALS; WATER POLLUTION CONTROL; *CALIFORNIA; PROJECT MER; SAN FRANCISCO BAY

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$5.40 PLUS POSTAGE

DESCRIPTIVE NOTE: 120P.

ISSUE: RIEMAY74

ABSTRACT: PROJECT MER (MARINE ECOLOGY RESEARCH) IS AIMED AT IMPROVING ENVIRONMENTAL EDUCATION IN THE SAN FRANCISCO BAY AREA SCHOOLS. AS PART OF MEETING THIS GOAL, IT IS HOPED THAT STUDENTS AND TEACHERS CAN SEE THE RESULTS OF THEIR EFFORTS BEING PUT TO PRACTICAL USE. THIS GUIDE IS THE FIRST OF A SERIES PRODUCED TO HELP THE STUDENTS AND TEACHERS GATHER DATA CONCERNING THE SAN FRANCISCO BAY-DELTA-ESTUARY COMPLEX AND TO ORGANIZE THESE DATA IN A FORM THAT COULD BE A CONTRIBUTION TO THE LITERATURE OF SCIENCE AND SERVE AS THE GROUNDWORK UPON WHICH KNOWLEDGEABLE DECISIONS ABOUT THE ENVIRONMENT COULD BE BASED. PRESENTED IN THIS GUIDE ARE TECHNIQUES AND PROCEDURES FOR MEASURING AND EVALUATING THE ECOLOGY OF AQUATIC ENVIRONMENT OF THE BAY. CHAPTER I DEALS WITH HOW PHYSICAL AND CHEMICAL FACTORS AFFECT THE DISTRIBUTION OF AQUATIC LIFE. GENERAL INFORMATION ON THE EFFECT OF A PARTICULAR FACTOR PRECEDES A TECHNICAL PRESENTATION ON HOW TO MEASURE OR EVALUATE THAT FACTOR. THE SECOND CHAPTER DISCUSSES TECHNIQUES FOR STUDYING THE PLANKTON POPULATION AND THE THIRD DISCUSSES TECHNIQUES FOR STUDYING BACTERIAL POPULATIONS. FIELD DATA SHEETS FOR RECORDING DATA ARE INCLUDED IN THE APPENDICES. RELATED DOCUMENTS ARE SE 016 646--SE 016 650. (JP)

INSTITUTION NAME: ALAMEDA COUNTY SCHOOL DEPT., HAYWARD, CALIF.; CONTRA COSTA COUNTY DEPT. OF EDUCATION, PLEASANT HILL, CALIF.

IRIS ACCESSION NUMBER: EW003361

ERIC ACCESSION NUMBER: ED086473

PUBLICATION DATE: NOV 72

TITLE: MAN AND ENVIRONMENT - FOR SECONDARY SCHOOLS: A CURRICULUM IN ENVIRONMENTAL STUDIES FOR HIGH SCHOOLS.

PERSONAL AUTHOR: MCCABE, ROBERT H.

INSTITUTION CODE: BBB05689

SPONSORING AGENCY CODE: BBB05608

DESCRIPTOR: AIR POLLUTION CONTROL; *CURRICULUM; *CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; LAND USE; POLLUTION; SECONDARY SCHOOL SCIENCE; TECHNOLOGY; URBANIZATION; WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$4.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 96P.; DEVELOPED BY A WORKSHOP IN ENVIRONMENTAL STUDIES FOR SECONDARY SCHOOLS (LAS VEGAS, NEVADA, NOVEMBER 13 THROUGH 17, 1972)

ISSUE: RIEMAY74

ABSTRACT: THIS CURRICULUM GUIDE CONTAINS 20 MODULES FOR AN INTEGRATED ENVIRONMENTAL STUDY IN THE SECONDARY SCHOOLS. EACH MODULE, TWO TO FOUR PAGES IN LENGTH, INCLUDES AN OVERVIEW, A LIST OF CONCEPTS AND A LIST OF STUDENT OBJECTIVES. IN ADDITION, AN APPENDIX HAS SUGGESTIONS FOR INITIATING AND IMPLEMENTING THE PROGRAM IN THE REGULAR SCHOOL CURRICULUM. REFERENCES AND POSSIBLE RESOURCES ARE GIVEN. (LS)

INSTITUTION NAME: NATIONAL ASSOCIATION FOR ENVIRONMENTAL EDUCATION, MIAMI, FLA.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. OFFICE OF ENVIRONMENTAL EDUCATION.

IRIS ACCESSION NUMBER: EW003362

PUBLICATION DATE: SEP 77

TITLE: ACHIEVING URBAN WATER CONSERVATION, A HANDBOOK.

PERSONAL AUTHOR: FLACK, J. ERNEST; AND OTHERS

DESCRIPTOR: *ATTITUDES; CONSERVATION EDUCATION; *CONSERVATION; ECONOMICS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *MUNICIPALITIES; PLANNING; POST SECONDARY EDUCATION; RATE POLICIES; *RECYCLING; UTILITIES; *WATER RESOURCES

DESCRIPTIVE NOTE: 210P.

ABSTRACT: THIS DOCUMENT PROVIDES INFORMATION ON THE FEASIBILITY OF USING VARIOUS WATER CONSERVATION MEASURES TO REDUCE RESIDENTIAL WATER USAGE. STRUCTURAL MEANS SUCH AS WATER METERS, RECYCLE SYSTEMS, AND FLOW REDUCTION DEVICES ARE EXAMINED. SYSTEM AND HOUSEHOLD LEAKAGE REDUCTION AS WELL AS WATER USE RESTRICTIONS ARE AMONG THE OPERATIONAL METHODS INVESTIGATED. ALSO DISCUSSED ARE SOCIAL AND ECONOMIC METHODS OF PUBLIC EDUCATION, BUILDING CODE MODIFICATIONS, HORTICULTURAL CHANGES, AND PRICING POLICIES. A LIST OF INFORMATION SOURCES IS PROVIDED FOR REFERENCE (CS)

AVAILABILITY: COLORADO STATE UNIVERSITY, COLORADO WATER RESOURCES RESEARCH INSTITUTE, ENVIRONMENTAL RESOURCES CENTER, FORT COLLINS, CO 80523 ($6.00)

IRIS ACCESSION NUMBER: EW003363

ERIC ACCESSION NUMBER: ED084428

PUBLICATION DATE: JUL 72

TITLE: AGRICULTURAL CHEMICALS AND RADIATION. AG ED ENVIRONMENTAL EDUCATION SERIES.

PERSONAL AUTHOR: TULLOCH, RODNEY W.

INSTITUTION CODE: ZBQ93377; ZBQ93560

DESCRIPTOR: AGRICULTURAL SUPPLIES; AGRICULTURE; *ENVIRONMENTAL EDUCATION; FERTILIZERS; HERBICIDES; HIGH SCHOOL CURRICULUM; INSECTICIDES; PESTICIDES; *RADIATION; RADIATION EFFECTS; RESOURCE MATERIALS; RODENTICIDES; *SAFETY; *VOCATIONAL AGRICULTURE; *AGRICULTURAL CHEMICALS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$4.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 77P.

ISSUE: RIEAPR74

ABSTRACT: THE DOCUMENT IS DESIGNED TO BE USED AS A RESOURCE IN TEACHING VOCATIONAL AGRICULTURE HIGH SCHOOL STUDENTS ABOUT THE ENVIRONMENT. AGRICULTURAL CHEMICALS ARE THE MAJOR FOCUS, WITH SOME ATTENTION TO RADIATION. THE IMPORTANCE OF SAFETY IN AGRICULTURAL CHEMICAL USE IS STRESSED, WITH DESCRIPTIONS OF THE PESTICIDE LABEL; PROTECTIVE CLOTHING; RESPIRATORY DEVICES; CORRECT APPLICATION, TRANSPORTING, HANDLING, AND DISPOSAL OF CHEMICALS; AND HEALTH HAZARDS. AGRICULTURAL CHEMICALS ARE DESCRIBED BY TYPE: INSECTICIDES, FUNGICIDES AND BACTERICIDES, HERBICIDES, NEMATICIDES, RODENTICIDES, AND MAMMALIAN BIOCIDES. LEGISLATION AND REGULATION OF AGRICULTURAL CHEMICALS ARE DISCUSSED. TOLERANCES--THEIR ESTABLISHMENT AND ENFORCEMENT--ARE COVERED. ALTERNATIVES TO AGRICULTURAL CHEMICALS ARE TREATED. THE SECTION ON RADIATION DEALS WITH SOURCES AND EFFECTS OF RADIATION. A 6-PAGE GLOSSARY AND A 23-ITEM BIBLIOGRAPHY ARE APPENDED. (MS)

REPORT NUMBER: 75-3B

INSTITUTION NAME: WASHINGTON STATE COORDINATING COUNCIL FOR OCCUPATIONAL EDUCATION, OLYMPIA.; WASHINGTON STATE UNIV., PULLMAN. COLL. OF EDUCATION.

IRIS ACCESSION NUMBER: EW003364

ERIC ACCESSION NUMBER: ED085228

PUBLICATION DATE: 72

TITLE: THE ABC'S OF WATER.

PERSONAL AUTHOR: LASKEY, MARILYN

INSTITUTION CODE: HWP08010

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *ALPHABETS; *CHILDRENS BOOKS; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; *PRIMARY GRADES; READING MATERIALS; *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 62P.

ISSUE: RIEAPR74

ABSTRACT: PRODUCED FOR PRIMARY GRADES, THIS STUDENT BOOKLET PROVIDES A UNIT APPROACH TO THE STUDY OF WATER. EACH LETTER OF THE ALPHABET IS USED TO REPRESENT A WORD DEALING IN SOME WAY WITH WATER. TWO PAGES ARE UTILIZED FOR EACH LETTER, SHOWING THE CAPITAL AND LOWERCASE FORM OF THE LETTER, THE WORD, A DRAWING OF THE WORD OR ARTICLE, AND A BRIEF EXPLANATION OF THE WORD OR CONCEPT. THE CONTENT MAY BE USED IN A VARIETY OF SUBJECT AREAS. A RELATED DOCUMENT IS THE TEACHER'S GUIDE, SE 016 490. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT FOR THE INTERDISCIPLINARY ENVIRONMENTAL EDUCATION K-12 PROJECT. (BL)

INSTITUTION NAME: BROWARD COUNTY SCHOOLS, FORT LAUDERDALE, FLA.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003365

ERIC ACCESSION NUMBER: ED085227

PUBLICATION DATE: 72

TITLE: A TEACHER'S GUIDE TO THE STUDY OF WATER FOR PRIMARY YOUNGSTERS.

PERSONAL AUTHOR: LASKEY, MARILYN

INSTITUTION CODE: HWP08010

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; LEARNING ACTIVITIES; *PRIMARY GRADES; *TEACHING GUIDES; UNIT PLAN; *WATER RESOURCES; ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 49P.

ISSUE: RIEAPR74

ABSTRACT: COMPILED IN THIS TEACHER'S GUIDE ARE SUGGESTIONS FOR A UNIT APPROACH TO THE STUDY OF WATER IN THE PRIMARY GRADES. DESIGNED TO BE UTILIZED WITH RELATED STUDENT DOCUMENTS, IT CONTAINS THE TEXT OR SCRIPT OF THESE WORKS: THE ABC'S OF WATER, SE 016 491 AND A TRIP TO THE WATER PLANT, SE 016 488. ALSO, IT INCLUDES UNIT OBJECTIVES; TEACHING PROCEDURES; A POEM ABOUT THE WATER CYCLE--"LITTLE JOHNNY RAINDROP"; A WATER CYCLE WHEEL; A BASIC MATH BOOK COVERING NUMBERS ONE TO FOUR AND CUP, PINT, AND QUART MEASUREMENT; AND THE SCRIPT FOR THE FILMSTRIP "OUR WATER SUPPLY." APPENDED SECTIONS TO THIS GUIDE ARE (1) "TEACHER GUIDELINES FOR THE STUDY OF WATER," PERTINENT INFORMATION WITH WHICH TEACHERS SHOULD BE FAMILIAR BEFORE STARTING A WATER STUDY, AND (2) "WATER STUDY ACTIVITIES FOR PRIMARY YOUNGSTERS, A TEACHER'S HANDBOOK," OVER 100 ACTIVITIES FOR TEACHING FACTS AND CONCEPTS ABOUT WATER. IT INTERRELATES ACTIVITIES THROUGH AN INTERDISCIPLINARY APPROACH AND IS BASED ON THE STUDENT BOOKLET, THE ABC'S OF WATER, SE 016 491. (BL)

INSTITUTION NAME: BROWARD COUNTY SCHOOLS, FORT LAUDERDALE, FLA.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003367

ERIC ACCESSION NUMBER: ED085217

PUBLICATION DATE: JUN 71

TITLE: A SELECTED ANNOTATED BIBLIOGRAPHY ON THE ANALYSIS OF WATER RESOURCES SYSTEM, VOLUME 2.

PERSONAL AUTHOR: KRISS, CAROL; AND OTHERS

INSTITUTION CODE: BBB09575

SPONSORING AGENCY CODE: BBB04155

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; COST EFFECTIVENESS; *ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; RESOURCE MATERIALS; *SIMULATION; *SYSTEMS ANALYSIS; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 263P.

ISSUE: RIEAPR74

ABSTRACT: PRESENTED IS AN ANNOTATED BIBLIOGRAPHY OF SOME RECENT SELECTED PUBLICATIONS PERTAINING TO THE APPLICATION OF SYSTEMS ANALYSIS TECHNIQUES FOR DEFINING AND EVALUATING ALTERNATIVE SOLUTIONS TO WATER RESOURCE PROBLEMS. BOTH SUBJECT AND AUTHOR INDICES ARE PROVIDED. KEYWORDS ARE LISTED AT THE END OF EACH ABSTRACT. THE ABSTRACTED MATERIAL EMPHASIZES THE APPLICATION OF OPTIMIZATION AND SIMULATION TECHNIQUES FOR ASSISTING IN THE PLANNING AND MANAGEMENT OF WATER RESOURCE SYSTEMS. (AUTHOR/JR)

REPORT NUMBER: PUB-35

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22151 (PB-200-727, PC-$3.00 MF-$0.95)

INSTITUTION NAME: CORNELL UNIV., ITHACA, N.Y. WATER RESOURCES AND MARINE SCIENCES CENTER.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESOURCES RESEARCH.

IRIS ACCESSION NUMBER: EW003368

ERIC ACCESSION NUMBER: ED085216

PUBLICATION DATE: AUG 69

TITLE: A SELECTED ANNOTATED BIBLIOGRAPHY ON THE ANALYSIS OF WATER RESOURCE SYSTEMS.

PERSONAL AUTHOR: GYSI, MARSHALL; AND OTHERS

INSTITUTION CODE: BBB09575

SPONSORING AGENCY CODE: BBB04155

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; CITY PLANNING; ENVIRONMENTAL EDUCATION; NATURAL RESOURCES; *SIMULATION; *SYSTEMS ANALYSIS; *TECHNIQUES; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 197P.

ISSUE: RIEAPR74

ABSTRACT: PRESENTED IS AN ANNOTATED BIBLIOGRAPHY OF SOME SELECTED PUBLICATIONS PERTAINING TO THE APPLICATION OF SYSTEMS ANALYSIS TECHNIQUES TO WATER RESOURCE PROBLEMS. THE MAJORITY OF THE REFERENCES INCLUDED IN THIS BIBLIOGRAPHY HAVE BEEN PUBLISHED WITHIN THE LAST FIVE YEARS. ABOUT HALF OF THE ENTRIES HAVE INFORMATIVE ABSTRACTS AND KEYWORDS FOLLOWING THE CITATION. INDEX CHARTS GIVE QUICK KEYWORD ACCESS FOR ALL THE REFERENCES, THE ABSTRACTED DOCUMENTS BEING COMPLETELY KEYWORDED, AND THE OTHERS TITLE KEYWORDED. THE EMPHASIS OF THE SUBJECT MATERIAL ABSTRACTED IS ON OPTIMIZATION AND SIMULATION TECHNIQUES THAT HAVE BEEN APPLIED TO WATER RESOURCES PROBLEMS. (AUTHOR/JR)

REPORT NUMBER: PUB-25

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22151 (PB-186-335, PC-$3.00 MF-$0.95)

INSTITUTION NAME: CORNELL UNIV., ITHACA, N.Y. WATER RESOURCES AND MARINE SCIENCES CENTER.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESOURCES RESEARCH.

IRIS ACCESSION NUMBER: EW003369

ERIC ACCESSION NUMBER: ED085214

PUBLICATION DATE: SEP 72

TITLE: SEARCHING THE SOCIAL SCIENCE LITERATURE ON WATER: A GUIDE TO SELECTED INFORMATION STORAGE AND RETRIEVAL SYSTEMS. PRELIMINARY VERSION.

PERSONAL AUTHOR: HOGGE, FRED; AND OTHERS

INSTITUTION CODE: BBB09574

SPONSORING AGENCY CODE: BBB04155

DESCRIPTOR: *GUIDES; INFORMATION RETRIEVAL; INFORMATION STORAGE; *INFORMATION SYSTEMS; LITERATURE GUIDES; *LITERATURE REVIEWS; *SOCIAL SCIENCES; STATE OF THE ART REVIEWS; URBAN ENVIRONMENT; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 52P.

ISSUE: RIEAPR74

ABSTRACT: THE GUIDE WAS PREPARED IN CONNECTION WITH A STATE-OF-THE-ART SURVEY AND LITERATURE REVIEW ON "INSTITUTIONS FOR URBAN-METROPOLITAN WATER PLANNING, DEVELOPMENT AND MANAGEMENT." THE GUIDE HAS THREE OBJECTIVES: TO REVIEW DEVELOPMENTS IN INFORMATION STORAGE AND RETRIEVAL; TO INDICATE PROGRESS BEING MADE IN DEVELOPING SYSTEMS; AND TO DESCRIBE AVAILABLE SYSTEMS WHICH MIGHT BE OF USE TO INVESTIGATIONS INTO THE SOCIAL SCIENCE ASPECTS OF WATER. SEPARATE CHAPTERS DEAL RESPECTIVELY WITH "GENERAL" SYSTEMS, WITH DISCIPLINE ORIENTED SYSTEMS, AND WITH CERTAIN BASIC BIBLIOGRAPHIC AND OTHER SEARCH RESOURCES. (AUTHOR/JR)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22151 (PB-213-874/1, PC-$4.50 MF-$0.95)

INSTITUTION NAME: COLORADO STATE UNIV., FT. COLLINS. ENVIRONMENTAL RESOURCES CENTER.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESOURCES RESEARCH.

IRIS ACCESSION NUMBER: EW003370

ERIC ACCESSION NUMBER: ED084425

PUBLICATION DATE: JUL 72

TITLE: WATER. AG ED ENVIRONMENTAL EDUCATION SERIES.

PERSONAL AUTHOR: TULLOCH, RODNEY W.

INSTITUTION CODE: ZBQ93377; ZBQ93560

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; HIGH SCHOOL CURRICULUM; *POLLUTION; RESOURCE MATERIALS; *VOCATIONAL AGRICULTURE; *WATER POLLUTION CONTROL; WATER RESOURCES; *WATER POLLUTION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 45P.

ISSUE: RIEAPR74

ABSTRACT: THE DOCUMENT IS A STUDENT RESOURCE UNIT TO BE USED IN TEACHING HIGH SCHOOL VOCATIONAL AGRICULTURE STUDENTS ABOUT WATER. THE HYDROLOGIC CYCLE AND NATURAL PROCESSES ARE DESCRIBED, WITH PARTICULAR ATTENTION TO EVAPORATION, PRECIPITATION, AND RUNOFF. SOURCES OF WATER POLLUTION ARE FOUND IN INDUSTRIES, MUNICIPALITIES, INDIVIDUAL ACTION, AND AGRICULTURE. DAMAGE TO HEALTH, RECREATION, ESTHETICS, FISHING, AGRICULTURE, AND WATER SUPPLIES ARE SOME OF THE RESULTS OF WATER POLLUTION. THE PRESENT SITUATION IS ASSESSED IN TERMS OF POTENTIAL CONTROLS, NUTRIENT ENRICHMENT, TOXICITY LEVELS, WASTE HEAT, GOVERNMENTAL PROGRAMS, MONITORING, AND THE SPECIAL PROBLEMS OF AGRICULTURE. THE DOCUMENT CONCLUDES WITH EIGHTEEN RECOMMENDATIONS TO IMPROVE WATER QUALITY. A TWELVE-ITEM BIBLIOGRAPHY IS INCLUDED. (MS)

REPORT NUMBER: 73-3H

INSTITUTION NAME: WASHINGTON STATE COORDINATING COUNCIL FOR OCCUPATIONAL EDUCATION, OLYMPIA.; WASHINGTON STATE UNIV., PULLMAN. COLL. OF EDUCATION.

IRIS ACCESSION NUMBER: EW003371

ERIC ACCESSION NUMBER: ED080361

PUBLICATION DATE: 73

TITLE: A CURRICULUM ACTIVITIES GUIDE TO WATER QUALITY EQUIPMENT AND ENVIRONMENTAL STUDIES.

PERSONAL AUTHOR: HERSHEY, JOHN T., ED.; AND OTHERS

INSTITUTION CODE: BBB06277

SPONSORING AGENCY CODE: BBB05608

DESCRIPTOR: *CONSTRUCTION (PROCESS); CURRICULUM GUIDES; ELEMENTARY GRADES; *ENVIRONMENTAL EDUCATION; *EQUIPMENT; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *MEASUREMENT INSTRUMENTS; SECONDARY GRADES; TESTING; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$9.00 PLUS POSTAGE

DESCRIPTIVE NOTE: 182P.

ISSUE: RIEDEC73

ABSTRACT: THIS BOOK IS THE THIRD IN A SERIES OF FOUR BOOKS EMPHASIZING STUDENT-ORIENTED PROBLEM SOLVING RELATED TO ENVIRONMENTAL MATTERS. IN PROPERLY CONDUCTED ENVIRONMENTAL INVESTIGATIONS, IT IS FELT STUDENTS WILL PERCEIVE THE NEED TO EXTEND THEIR SENSES BY USING INSTRUMENTS. THE INSTRUMENTATION AS PRESENTED IN THIS GUIDE SHOULD AID STUDENTS IN THIS RESPECT. CHAPTER 1 OFFERS CONSTRUCTION PLANS FOR 23 PIECES OF WATER QUALITY TESTING EQUIPMENT. INCLUDED FOR EACH ARE AN INTRODUCTION TO THE ITEM, MATERIALS AND TOOLS NEEDED, PROCEDURE FOR CONSTRUCTION, DIRECTIONS FOR USING IT, PROBLEMS ENCOUNTERED, AND A BIBLIOGRAPHY. BASIC, INTERMEDIATE, AND ADVANCED WATER QUALITY KITS AND SYSTEMS WHICH CAN INVESTIGATE FOUR MAJOR WATER QUALITY PARAMETERS—PHYSICAL, CHEMICAL, MACROBIOLOGICAL, AND MICROBIOLOGICAL FACTORS—ARE DISCUSSED IN CHAPTER 2. WATER QUALITY EQUIPMENT IS LISTED IN CHAPTER 3 FOR MEASURING DEVICES, SCIENTIFIC EQUIPMENT, TOOLS, RESOURCE MATERIALS, SUPPLIES, CONTAINERS, AND GLASS AND MISCELLANEOUS ITEMS. EACH TABLE IDENTIFIES THE ITEM, USE AREA (BIOLOGY, CHEMISTRY, PHYSICS), TOPIC AREA, AGE RANGE OF USER, AND LOCAL SOURCE TO OBTAIN IT. HOW AND WHERE TO GET NEEDED ITEMS ARE DEALT WITH IN THE FINAL CHAPTER. RELATED DOCUMENTS ARE SE 016 524 AND SE 016 525. (BL)

GRANT NUMBER: OEG-0-72-5105

AVAILABILITY: INSTITUTE FOR ENVIRONMENTAL EDUCATION, 8911 EUCLID AVENUE, CLEVELAND, OHIO 44106

INSTITUTION NAME: PROJECT KARE, BLUE BELL, PA.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. OFFICE OF ENVIRONMENTAL EDUCATION.

IRIS ACCESSION NUMBER: EW003372

ERIC ACCESSION NUMBER: ED080342

PUBLICATION DATE: 73

TITLE: APPROVED PRACTICES IN SOIL CONSERVATION.

PERSONAL AUTHOR: FOSTER, ALBERT B.

DESCRIPTOR: *CONSERVATION EDUCATION; FARM MANAGEMENT; *LAND USE; *METHODS; NATURAL RESOURCES; *SOIL CONSERVATION; SOIL SCIENCE; *TECHNIQUES; TECHNOLOGY; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 97P

ISSUE: RIEDEC7

ABSTRACT: THIS BOOK IS WRITTEN FOR INDIVIDUALS WHO WISH TO APPLY CONSERVATION PRACTICES, ESPECIALLY THOSE OF SOIL AND WATER CONSERVATION, WITHOUT TECHNICAL ASSISTANCE, TO MEET ONE'S OWN CONDITIONS, AND WITHIN HIS OWN CAPABILITY TO APPLY THEM. TO MEET THESE NEEDS, THE BOOK INCLUDES A DISCUSSION AND DESCRIPTION OF SOIL AND WATER CONSERVATION METHODS FOR THE SMALL OPERATOR WHILE AT THE SAME TIME RECOGNIZING THE CHANGES THAT HAVE BEEN BROUGHT ABOUT THROUGH IMPROVED TECHNOLOGY AND BY LARGER AND MORE COMPLEX FARM EQUIPMENT. THE RANGE OF TOPICS COVERED INCLUDE: USING LAND WITHIN ITS CAPABILITY, USING CROPPING SYSTEMS THAT CONSERVE SOIL AND WATER, ENGINEERING INSTRUMENTS, CALCULATING THE RUNOFF FROM A WATERSHED, GRASSED WATERWAYS AND OUTLETS, FARMING ON THE CONTOUR, CONTOUR FENCES, STRIP CROP FARMING, LAYING OUT AND CONSTRUCTING TERRACES AND DIVERSIONS, MINIMUM TILLAGE, LAYING OUT AND CONSTRUCTING PONDS, PREVENTING AND HEALING GULLIES, CONTROLLING EROSION ON CONSTRUCTION SITES, CONTROLLING SANDBLOWS, PLANTING SHELTERBELTS, MANAGING FARM WOODLANDS, MANAGING LAND FOR WILDLIFE, IMPROVING AND MANAGING PASTURES AND RANGES, LAYING OUT AND CONSTRUCTING FARM DRAINAGE, CONSERVATION IRRIGATION, AND USING LAND FOR RECREATION. MANY DIAGRAMS, CHARTS, AND PICTURES ARE FOUND THROUGHOUT AND A LARGE GLOSSARY OF TERMS CONCLUDES THE WORK. (BL)

AVAILABILITY: INTERSTATE PRINTERS & PUBLISHERS, DANVILLE, ILLINOIS (NO PRICE QUOTED)

IRIS ACCESSION NUMBER: EW003373

ERIC ACCESSION NUMBER: ED079177

PUBLICATION DATE: DEC 71

TITLE: THE RIVER BASIN MODEL: COMPUTER OUTPUT. WATER POLLUTION CONTROL RESEARCH SERIES.

INSTITUTION CODE: BBB01572; BBB06757

DESCRIPTOR: COMPUTER GRAPHICS; *COMPUTER ORIENTED PROGRAMS; ECONOMIC FACTORS; ELECTRONIC DATA PROCESSING; *ENVIRONMENTAL EDUCATION; GOVERNMENT ROLE; MODELS; *RESEARCH PROJECTS; SIMULATED ENVIRONMENT; *SIMULATION; SOCIAL FACTORS; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$12.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 253P.

ISSUE: RIENOV73

ABSTRACT: THIS RESEARCH REPORT IS PART OF THE WATER POLLUTION CONTROL RESEARCH SERIES WHICH DESCRIBES THE RESULTS AND PROGRESS IN THE CONTROL AND ABATEMENT OF POLLUTION IN OUR NATION'S WATERS. THE RIVER BASIN MODEL DESCRIBED IS A COMPUTER-ASSISTED DECISION-MAKING TOOL IN WHICH A NUMBER OF COMPUTER PROGRAMS SIMULATE MAJOR PROCESSES RELATED TO WATER USE THAT TAKE PLACE WITHIN A GEOGRAPHICAL BOUNDARY. THESE PROCESSES INCLUDE MIGRATION, HOUSING SELECTION, EMPLOYMENT, TRANSPORTATION, SHOPPING PATTERNS, THE ALLOCATION OF LEISURE TIME, AND WATER QUALITY DETERMINATION. USERS OF THE MODEL PROVIDE INPUTS TO THESE PROGRAMS ON BEHALF OF BUSINESS ACTIVITIES IN THE ECONOMIC SECTOR, GROUPS OF PEOPLE OR POPULATION UNITS IN THE SOCIAL SECTOR, AND GOVERNMENT DEPARTMENTS IN THE GOVERNMENT SECTOR. THIS DOCUMENT INCLUDES PRINTED COMPUTER OUTPUTS (MAPS SHOWING CHARACTERISTICS OF THE REGION WHICH DIFFER GEOGRAPHICALLY, SUMMARIES WHICH PRESENT INFORMATION IN CAPSULATED FORM, AND DETAILED INFORMATION FROM WHICH THE SUMMARIES ARE DERIVED) WHICH PROVIDE A YEARLY REPORT OF THE STATUS OF THE SIMULATION AND OF INTERACTIONS WITHIN THE REGION DURING THE PREVIOUS YEAR. (SHM)

REPORT NUMBER: R-16110-FRU-12-71-12

AVAILABILITY: GOVERNMENT PRINTING OFFICE, PUBLIC DOCUMENTS DEPARTMENT, WASHINGTON, D.C. 20402 (ORDER NUMBER EP1.16:16110FRU12/71-1; $1.00)

INSTITUTION NAME: ENVIROMETRICS, INC., WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C. OFFICE OF RESEARCH AND MONITORING.

IRIS ACCESSION NUMBER: EW003374

ERIC ACCESSION NUMBER: ED079100

PUBLICATION DATE: 72

TITLE: WATER QUALITY CONTROL, CURRICULUM GUIDE.

INSTITUTION CODE: QXM60130; QXM63750

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: CURRICULUM GUIDES; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; NATURAL RESOURCES; QUALITY CONTROL; *SECONDARY GRADES; *TEACHING GUIDES; UNITS OF STUDY (SUBJECT FIELDS); *WATER RESOURCES; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$10.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 209P.

ISSUE: RIENOV73

ABSTRACT: ACTIVITIES WHICH STUDY HOW WATER IS USED, CONTAMINATED, AND TREATED OR PURIFIED ARE PRESENTED IN THIS CURRICULUM GUIDE, CULMINATING IN THE INVESTIGATION OF A LOCAL WATER QUALITY PROBLEM. DESIGNED AS A 12 WEEK MINI-COURSE FOR STUDENTS IN GRADES EIGHT AND NINE, THE GUIDE FIRST PRESENTS A REVIEW OF THE CONTENT, OBJECTIVES, MAJOR CONCEPTS, AND SOURCES FOR STUDENT REFERENCE MATERIALS. MAJOR TOPICS OR UNITS OF STUDY ARE TITLED: WATER, A RENEWABLE RESOURCE (HYDROLOGIC CYCLE); IS WATER A RENEWABLE RESOURCE?; SCIENTIFIC ANALYSIS OF LOCAL WATER QUALITY; AND A LOCAL STUDY OF WATER QUALITY. EACH UNIT IS COMPOSED OF A SERIES OF PRE-, MAJOR, AND POST-ACTIVITIES BEGINNING WITH A GENERAL OVERVIEW INDICATING TITLE OF THE UNIT, PURPOSE OR OBJECTIVE, ABSTRACT OF CONTENT, AND UNIT SCHEDULE OF ACTIVITIES, INCLUDING TIME ALLOTMENTS. INDIVIDUAL ACTIVITIES ENUMERATE, WHERE APPROPRIATE, BACKGROUND INFORMATION, MAJOR POINTS TO EMPHASIZE, QUESTIONS OR QUIZZES, TEACHING PROCEDURES, MATERIALS REQUIRED, AND SUPPLEMENTAL ACTIVITIES OR INFORMATION. A VARIETY OF MEDIA AND PROCESSES IS SUGGESTED TO ALLOW FOR FLEXIBILITY. THIS WORK WAS PREPARED UNDER A CONTRACT FOR AN ESEA TITLE III PROJECT, "ENVIRONMENTAL SCIENCE STUDY CURRICULUM." (BL)

INSTITUTION NAME: NORTH CAROLINA STATE DEPT. OF PUBLIC INSTRUCTION, RALEIGH.; WASHINGTON CITY BOARD OF EDUCATION, D.C.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003376

ERIC ACCESSION NUMBER: ED082976

PUBLICATION DATE: APR 73

TITLE: PESTICIDES AND THE ENVIRONMENT.

PERSONAL AUTHOR: NEUFELD, GAYLEN

INSTITUTION CODE: KUJ40500

DESCRIPTOR: *ECOLOGY; *ENVIRONMENTAL INFLUENCES; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; POLLUTION; *SOCIOECONOMIC INFLUENCES; STATE OF THE ART REVIEWS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 16P.

ISSUE: RIEFEB74

ABSTRACT: CONSIDERATION OF THE DANGERS OF PESTICIDES TO THE WORLD ECOSYSTEM AS WELL AS THE ECONOMIC NECESSITY WHICH AN AFFLUENT SOCIETY HAS CREATED ARE THE TWO SIDES OF THE PESTICIDE PROBLEM DISCUSSED IN THIS ISSUE. AN ATTEMPT IS MADE TO CLARIFY THE ISSUE, TO RECOGNIZE THE WAYS THAT PESTICIDES EXERT THEIR EFFECTS, AND TO RELATE WHAT MEASURES CAN BE TAKEN TO PROVIDE A SAFE ENVIRONMENT FOR FUTURE GENERATIONS. SPECIFIC TOPICS STUDY THE HISTORY OF PESTICIDE DEVELOPMENT AND USE, ECONOMIC VALUES (BENEFITS TO MAN), CHEMICALS FOR PEST CONTROL CATEGORIZED AS TO ORIGIN OR CHEMICAL STRUCTURE, PRESENCE OF PESTICIDES IN THE ENVIRONMENT, PHYSIOLOGICAL AND BIOCHEMICAL EFFECTS, NEW APPROACHES TO PEST CONTROL, THE FUTURE OF PESTICIDES, AND SUGGESTIONS FOR THE HOME GARDENER. SEVERAL DIAGRAMS, CHARTS, AND TABLES HELP TO CLARIFY THE INFORMATION. A PRODUCT LIST AND REFERENCES ARE ALSO GIVEN. (BL)

JOURNAL CITATION: KANSAS SCHOOL NATURALIST; V19 N4 APR73

INSTITUTION NAME: KANSAS STATE TEACHERS COLL., EMPORIA.

IRIS ACCESSION NUMBER: EW003377

ERIC ACCESSION NUMBER: ED068365

PUBLICATION DATE: JUL 72

TITLE: INFORMATION RESOURCES IN PESTICIDES, ENVIRONMENTAL HEALTH AND HAZARDOUS MATERIALS.

PERSONAL AUTHOR: MALONE, WINFRED F.

INSTITUTION CODE: BBB06039

DESCRIPTOR: BIBLIOGRAPHIES; DIRECTORIES; *ENVIRONMENT; HEALTH; INDEXES (LOCATERS); *INFORMATION SOURCES; *ORGANIZATIONS (GROUPS); *PERIODICALS; PESTICIDES; *REFERENCE MATERIALS; RESOURCES; *TOXIC SUBSTANCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 14P.

ISSUE: RIEFEB73

ABSTRACT: THIS DIRECTORY OF INFORMATION CENTERS, SELECTED ABSTRACTING AND INDEXING PUBLICATIONS, AND A DISCUSSION OF JOURNAL CAPABILITIES AND LIMITATIONS HAS BEEN PREPARED BY THE HAZARDOUS MATERIALS ADVISORY COMMITTEE OF THE ENVIRONMENTAL PROTECTION AGENCY. FOR SELECTED INFORMATION RESOURCES, EACH OF THE 20 ENTRIES INCLUDES NAME AND LOCATION OF THE ORGANIZATION, TELEPHONE NUMBER, SCOPE OF SERVICES OFFERED, AND SPECIAL PROGRAMS CONDUCTED AT OR THROUGH ITS FACILITIES. SECTION 2, SELECTED ABSTRACTING AND INDEXING PUBLICATIONS, LISTS 31 JOURNALS APPLICABLE TO PESTICIDES, ENVIRONMENTAL HEALTH, AND HAZARDOUS MATERIALS. THE FINAL SECTION DISCUSSES THE ADVANTAGES AND LIMITATIONS OF NINE ABSTRACTING AND INDEXING JOURNALS WITH REGARD TO PESTICIDE INFORMATION. (BL)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003378

ERIC ACCESSION NUMBER: ED074373

PUBLICATION DATE: DEC 71

TITLE: HYDROLOGIC SERVICES COURSE.

INSTITUTION CODE: BBB07900

DESCRIPTOR: AGENCY ROLE; *CORRESPONDENCE COURSES; *COURSE DESCRIPTIONS; *CURRICULUM GUIDES; NATURAL RESOURCES; *WATER RESOURCES; *NATIONAL WEATHER SERVICE; WEATHER FORECASTING; *HYDROLOGY

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$12.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 260P.; REPRINT

ISSUE: RIEAUG73

ABSTRACT: A COURSE TO DEVELOP AN UNDERSTANDING OF THE SCOPE OF WATER RESOURCE ACTIVITIES, OF THE NEED FOR FORECASTING, OF THE NATIONAL WEATHER SERVICE'S ROLE IN HYDROLOGY, AND OF THE PROPER PROCEDURES TO FOLLOW IN FULFILLING THIS ROLE IS PRESENTED. THE COURSE IS ONE OF SELF-HELP, GUIDED BY CORRESPONDENCE. NINE LESSONS ARE INCLUDED: (1) HYDROLOGY IN THE NATIONAL WEATHER SERVICE, (2) WATER MANAGEMENT PROGRAMS, (3) IS THERE A WATER SHORTAGE? (4) WATER RESOURCES MANAGEMENT AND CONTROL STRUCTURES, (5) DATA ACQUISITION AND PROCESSING, (6) OFFICE ARRANGEMENTS, (7) FORECASTS, (8) DISSEMINATION, AND (9) ADMINISTRATION. (CK)

INSTITUTION NAME: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (DOC), ROCKVILLE, MD. NATIONAL WEATHER SERVICE.

IRIS ACCESSION NUMBER: EW003379

ERIC ACCESSION NUMBER: ED073910

PUBLICATION DATE: OCT 72

TITLE: SCHOOL LEARNING MATERIALS ON WATER PROBLEMS OF NEW MEXICO AND THE SOUTHWEST.

PERSONAL AUTHOR: BUETHE, CHRIS; AND OTHERS

INSTITUTION CODE: BBB07641

DESCRIPTOR: ATTITUDES; *AUDIOVISUAL INSTRUCTION; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *MATERIAL DEVELOPMENT; POLLUTION; PROBLEMS; RESEARCH; *WATER RESOURCES; NEW MEXICO; ARID REGIONS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 23P.

ISSUE: RIEJUL73

ABSTRACT: SCHOOLS TYPICALLY MAKE NO SPECIAL EFFORTS TO PREPARE STUDENTS TO COPE WITH PRESENT AND ANTICIPATED WATER PROBLEMS. USING THIS AS A PREMISE, THE OBJECTIVE OF THIS STUDY WAS TO PREPARE A SET OF MEDIATED LEARNING PACKAGES BASED UPON WATER PROBLEMS OF NEW MEXICO AND THE DRY REGIONS OF THE SOUTHWEST. THESE LEARNING MATERIALS WERE PREPARED AND FIELD TESTED FOR USE AT THREE LEVELS: ELEMENTARY (GRADES 3-6), SECONDARY (GRADES 7-12), AND ADULT (TEACHERS AND MATURE STUDENTS). EACH LEARNING PACKAGE WAS COMPOSED OF A SET OF COLOR SLIDES, AN ACCOMPANYING TAPE RECORDING, A COPY OF THE TAPE SCRIPT, AND SUGGESTIONS FOR EDUCATIONAL USE. THE LEARNING PACKAGES WERE BASED UPON THE RESULTS OF SCHOOL TESTING OF BOTH KNOWLEDGE AND ATTITUDES CONCERNING THE MOST IMPORTANT PROBLEMS IN NEW MEXICO, AS IDENTIFIED BY THE CITIZENS' CONFERENCE ON WATER, 1971. GROUPS OF LEARNERS USING THE PACKAGES AT ALL THREE LEVELS SHOWED A MORE ACCURATE REFLECTION OF VALID WATER PROBLEMS THAN DID THOSE LEARNERS WHO USED AVAILABLE LIBRARY MATERIALS OR NO SPECIAL LEARNING MATERIALS. (BL)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22151 (PB-212 719 PC-$3.00 MF-$0.95)

INSTITUTION NAME: NEW MEXICO STATE UNIV., UNIVERSITY PARK. WATER RESOURCES RESEARCH INST.

IRIS ACCESSION NUMBER: EW003380

ERIC ACCESSION NUMBER: ED072962

PUBLICATION DATE: APR 72

TITLE: THE FEDERAL OCEAN PROGRAM.

INSTITUTION CODE: BBB00644

DESCRIPTOR: *ANNUAL REPORTS; *ENVIRONMENT; FEDERAL GOVERNMENT; MARINE BIOLOGY; NATURAL RESOURCES; OCEAN ENGINEERING; *OCEANOLOGY; *PROGRAM DESCRIPTIONS; TECHNOLOGY; *WATER RESOURCES; INTERNATIONAL COOPERATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$6.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 131P.

ISSUE: RIEJUN73

ABSTRACT: PREPARED IN ACCORDANCE WITH THE MARINE RESOURCES AND ENGINEERING DEVELOPMENT ACT OF 1966, THIS ANNUAL REPORT REVIEWS THE NATION'S EFFORTS TO COMPREHEND, CONSERVE, AND USE THE SEA. PROTECTING AND ENHANCING THE MARINE ENVIRONMENT TOGETHER WITH DEVELOPING AND MANAGING MARINE RESOURCES ARE EMPHASIZED. IT INCLUDES: (1) A COMPREHENSIVE DESCRIPTION OF THE ACTIVITIES AND ACCOMPLISHMENTS OF ALL AGENCIES AND DEPARTMENTS IN THE FIELD OF MARINE SCIENCES DURING FISCAL YEAR 1971, (2) AN EVALUATION OF THESE ACTIVITIES, (3) RECOMMENDATIONS FOR LEGISLATION, AND (4) AN ESTIMATE OF THE FUNDING REQUIREMENTS OF EACH AGENCY AND DEPARTMENT FOR MARINE SCIENCE ACTIVITIES FOR THE SUCCEEDING FISCAL YEAR. BASED ON THE MAJOR PURPOSES OF THE FEDERAL MARINE SCIENCE PROGRAM, IT SUMMARIZES THE MANY FACETS OF INTERNATIONAL COOPERATION AND COLLABORATION, NATIONAL SECURITY, FISHERY DEVELOPMENT AND SEA FOOD TECHNOLOGY, TRANSPORTATION, DEVELOPMENT AND CONSERVATION OF THE COASTAL ZONE, HEALTH, NONLIVING RESOURCES, OCEANOGRAPHIC RESEARCH, EDUCATION, ENVIRONMENTAL OBSERVATION AND PREDICTION, OCEAN EXPLORATION/MAPPING/CHARTING AND GEODESY, GENERAL-PURPOSE OCEAN ENGINEERING, AND NATIONAL DATA CENTERS. NUMEROUS CHARTS AND PHOTOGRAPHS ARE DISPERSED THROUGHOUT THE TEXT, WITH STATISTICAL DATA AND SUPPLEMENTAL INFORMATION PROVIDED IN THE APPENDIX. (BL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NO. 4106-0033, $0.70)

INSTITUTION NAME: EXECUTIVE OFFICE OF THE PRESIDENT, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003381

ERIC ACCESSION NUMBER: ED071843

PUBLICATION DATE: MAR 72

TITLE: SKILLS CONVERSION PROJECT, CHAPTER 8, POLLUTION CONTROL. FINAL REPORT.

INSTITUTION CODE: FGK57368

DESCRIPTOR: AEROSPACE INDUSTRY; *AIR POLLUTION CONTROL; CAREER CHANGE; EMPLOYMENT POTENTIAL; *MANPOWER UTILIZATION; PROFESSIONAL PERSONNEL; REPORTS; SKILL OBSOLESCENCE; *TECHNICAL OCCUPATIONS; *THERMAL ENVIRONMENT; TRANSFER OF TRAINING; *WATER POLLUTION CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 222P.

ISSUE: RIEMAY73

ABSTRACT: THE SKILLS CONVERSION PROJECT CONDUCTED BY THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS SOUGHT TO STUDY THE TRANSITION MECHANISMS REQUIRED TO TRANSFER AVAILABLE TECHNICAL MANPOWER FROM AEROSPACE AND DEFENSE INDUSTRIES INTO OTHER AREAS OF EMPLOYMENT IN PRIVATE INDUSTRY AND PUBLIC SERVICE. FOURTEEN STUDY TEAMS ASSESSED THE LIKELIHOOD OF FUTURE NEEDS AND UTILIZATION OF TECHNICAL PROFESSIONAL MANPOWER. CHAPTER 8, DEALING WITH POTENTIALS IN THERMAL, AIR, AND WATER POLLUTION CONTROL, CONTAINS REPORTS BY THE HUNTSVILLE (ALABAMA), LOS ANGELES, AND SEATTLE TEAMS RESPECTIVELY. THE THREE SECTIONS ARE INDEPENDENT STUDIES, NOT ONLY BY SUBJECT MATTER, BUT ALSO BY REGION WHERE THE BASIC STUDY WAS PERFORMED PRIOR TO ANY NATIONA EXTRAPOLATION. DETAILS OF THE STUDIES, INCLUDING DAT SUMMARIES, RECOMMENDATIONS, REFERENCES, AND CONTACTS AR ENUMERATED. FINDINGS SHOWED THAT THE CONTROL OF POLLUTIO CAN BE SOLVED BY APPLICATION OF TECHNOLOGY, AN OPPORTUNITIES EXIST FOR NEARLY ALL TECHNICAL DISCIPLINES WITH CONVERSION OF AEROSPACE/DEFENSE PROFESSIONALS POSSIBLE THE MODES OF CONVERSION ARE ON-THE-JOB, SHORT COURSE STUDY, OR THE FORMAL EDUCATION PROCESS (SANITARY ENGINEERING) ALTHOUGH JOB OPPORTUNITIES ARE AVAILABLE NOW TO TAKE CARE O POLLUTION PROBLEMS WHERE REQUIREMENTS HAVE BEEN ESTABLISHED MANY MORE WILL OPEN UP WHEN REGULATIONS COVERING AL POLLUTION ARE ESTABLISHED. (BL)

REPORT NUMBER: PB-209-281-08

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD, VIRGINIA 22151 (PB-209-281-08 MF-$0.95 PC $6.75)

INSTITUTION NAME: NATIONAL SOCIETY OF PROFESSIONA ENGINEERS, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003382

ERIC ACCESSION NUMBER: ED070776

PUBLICATION DATE: JUN 71

TITLE: SEWAGE-PLANT OPERATOR (ANY IND.), WATER-TREATMENT PLANT OPERATOR (WATERWORKS) 954.782; SEWAGE-PLANT OPERATO (SANITARY SER.), WASTE-TREATMENT-PLANT OPERATOR (SANITAR SER.) 955.782, 1 955.782--TECHNICAL REPORT ON DEVELOPMENT O USTES APTITUDE TEST BATTERY.

INSTITUTION CODE: BBB02819

DESCRIPTOR: *APTITUDE TESTS; *CUTTING SCORES *ENVIRONMENTAL TECHNICIANS; EVALUATION CRITERIA; JO APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY WASTES; WATER POLLUTION CONTROL; GATB; *GENERAL APTITUD TEST BATTERY; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER) *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 19P.

ISSUE: RIEAPR73

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVIC GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED I 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARC TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFEREN OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASUR NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDAR SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKIN POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONA NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORE FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHE COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SE ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING TH PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WIT CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTIO PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATIO SAMPLE AND A PERSONNEL EVALUATION FORM ARE ALSO INCLUDED (AG)

REPORT NUMBER: USTES-TR-S-342R

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL) WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

IRIS ACCESSION NUMBER: EW003383

ERIC ACCESSION NUMBER: ED051488

PUBLICATION DATE: NOV 69

TITLE: THE EFFECT OF A PLANNED COMMUNICATION PROGRAM O CHANGE OF ATTITUDE AND KNOWLEDGE OF THE URBAN DWELLER TOWARD CHEMICALS AND PESTICIDES.

PERSONAL AUTHOR: GRUENHAGEN, R. H.

INSTITUTION CODE: BBB05151; FGK25291

DESCRIPTOR: *ADULT EDUCATION PROGRAMS; *CHANGING ATTITUDES CHEMICAL REACTIONS; *COMMUNICATION (THOUGHT TRANSFER) *INFORMATION SEEKING; *MEASUREMENT TECHNIQUES; PESTICIDES RESEARCH DESIGN; URBAN POPULATION; *CHEMICALS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$18.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 391P.

ISSUE: RIEOCT71

ABSTRACT: THE OBJECTIVES OF THIS STUDY WERE: (1) T IDENTIFY THE MIDDLE AND UPPER-MIDDLE CLASS URBAN AUDIENCE I TERMS OF CERTAIN SELECTED VARIABLES; (2) TO DESIGN AN PERFECT TECHNIQUES TO MEASURE ATTITUDE TOWARD AND KNOWLEDG OF PESTICIDES AND CHEMICALS; (3) TO DETERMINE THE PRESEN KNOWLEDGE AND ATTITUDE OF THE AUDIENCE TOWARD PESTICIDES AN CHEMICALS; (4) TO DETERMINE THE EFFECTIVENESS OF A PLANNE EXTENSION COMMUNICATIONS PROGRAM IN BRINGING ABOUT A CHANG IN ATTITUDE; AND (5) TO ASCERTAIN THE RELATIVE EFFECTIVENES OF VARIOUS EXTENSION COMMUNICATION METHODS IN SEARCHING AN INFLUENCING THE SELECTED AUDIENCE. TO ACCOMPLISH THES OBJECTIVES, THE RESEARCH PLAN WAS DESIGNED TO: (1) COLLEC DATA FROM A RANDOM SAMPLE OF INDIVIDUALS WITHIN THE TES POPULATION IN ORDER TO OBTAIN AN AUDIENCE PROFILE AND T IDENTIFY BENCHMARKS OF KNOWLEDGE AND ATTITUDE; (2) EXPOSE SELECTED TEST AREA TO A PLANNED EXPERIMENTAL COMMUNICATION

PROGRAM; (3) COLLECT DATA FROM A SECOND RANDOM SAMPLE WITHIN THE TEST POPULATION SO THAT POST-TREATMENT PROFILES AND BENCHMARKS COULD BE ESTABLISHED; AND (4) EVALUATE THE EFFECTIVENESS OF THE EXPERIMENTAL TREATMENT AND OF THE SEPARATE COMMUNICATION MEDIA USED IN CHANGING LEVELS OF KNOWLEDGE AND ATTITUDES. RESULTS, CONCLUSIONS, AND RECOMMENDATIONS ARE GIVEN. (AUTHOR/DB)

REPORT NUMBER: MCDP-18

INSTITUTION NAME: FEDERAL EXTENSION SERVICE (DOA), WASHINGTON, D.C.; VIRGINIA POLYTECHNIC INST., BLACKSBURG. EXTENSION DIV.

IRIS ACCESSION NUMBER: EW003384

ERIC ACCESSION NUMBER: ED051380

PUBLICATION DATE: 70

TITLE: AGRICULTURAL CHEMICAL SAFETY. A GUIDE TO SAFE HANDLING OF PESTICIDES. TEACHER'S HANDBOOK, STUDENT MANUAL, AND TRANSPARENCIES.

PERSONAL AUTHOR: VAN DE VANTER, GORDON L.

INSTITUTION CODE: BBB02243

SPONSORING AGENCY CODE: CIQ11100

DESCRIPTOR: *AGRICULTURAL EDUCATION; *AGRICULTURAL SAFETY; BIBLIOGRAPHIC CITATIONS; INSECTICIDES; INSTRUCTIONAL MATERIALS; *PESTICIDES; SAFETY EDUCATION; STUDY GUIDES; *TEACHING GUIDES; TRANSPARENCIES; *AGRICULTURAL CHEMICALS; *REGULATIONS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 155P.; 1970 REVISION

ISSUE: RIESEP71

ABSTRACT: INTENDED FOR TEACHERS AND STUDENTS, THIS AGRICULTURAL CHEMICAL SAFETY PACKAGE OF INSTRUCTIONAL MATERIALS PERTAINING TO THE SAFE HANDLING OF PESTICIDES WAS DEVELOPED BY VOCATIONAL EDUCATION PRODUCTIONS OF CALIFORNIA STATE POLYTECHNIC COLLEGE. INCLUDED ARE A TEACHERS' HANDBOOK, A STUDENT MANUAL, AND 20 TRANSPARENCY MASTERS. THE TEACHERS' HANDBOOK IS DESIGNED TO GIVE BACKGROUND INFORMATION TO INSTRUCTORS AND TO AID THEM IN THE COORDINATION OF AUDIO-VISUAL AIDS, TEACHING AIDS, AND STUDENT EXERCISES WITH THE STUDENT MANUAL FOR MORE EFFECTIVE CLASSROOM PRESENTATION. A TEACHING PLAN, A TRUE-FALSE TEST, AND ADDITIONAL READING MATERIALS ARE INCLUDED. TOPIC HEADINGS ARE: (1) PESTICIDES ARE NECESSARY, (2) PESTICIDE LAWS AND REGULATIONS, AND (3) PERSONAL SAFETY WHEN HANDLING AGRICULTURAL CHEMICALS. (GB)

AVAILABILITY: VOCATIONAL EDUCATION PRODUCTIONS, CALIFORNIA STATE POLYTECHNIC COLLEGE, SAN LUIS OBISPO, CALIFORNIA 93401 (ENTIRE PACKAGE $10.00)

INSTITUTION NAME: CALIFORNIA STATE POLYTECHNIC COLL., SAN LUIS OBISPO.

SPONSORING AGENCY NAME: CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO.

IRIS ACCESSION NUMBER: EW003385

ERIC ACCESSION NUMBER: ED070644

PUBLICATION DATE: 71

TITLE: THESAURUS OF WATER; RESOURCES TERMS. A COLLECTION OF WATER RESOURCES AND RELATED TERMS FOR USE IN INDEXING TECHNICAL INFORMATION.

INSTITUTION CODE: BBB07191

DESCRIPTOR: ENVIRONMENT; INDEXES (LOCATERS); INDEXING; INFORMATION RETRIEVAL; *REFERENCE MATERIALS; *SUBJECT INDEX TERMS; *THESAURI; *WATER RESOURCES.

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$16.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 341P.

ISSUE: RIEAPR73

ABSTRACT: BASED ON THE NEED FOR INDEXING DOCUMENTS AND INTEREST PROFILES WITHIN A SELECTIVE DISSEMINATION OF INFORMATION (SDI) SYSTEM, THE BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR, HAS COMPILED THIS THESAURUS OF TERMS RELATED TO WATER RESOURCES. DEVELOPMENT TERMS DESCRIBING DESIGN AND CONSTRUCTION ACTIVITIES, AS WELL AS BIOLOGICAL AND PHYSICAL SCIENCE TERMS RELATED TO WATER RESOURCES, ARE EMPHASIZED. THE 6,585 TERMS ARE ARRANGED ACCORDING TO LEAD TERMS, TOGETHER WITH BOTH BROADER AND NARROWER HIERARCHICAL RELATIONSHIP TERMS AND RELATED TERMS. USE REFERENCES ARE NOTED TO SATISFY DESIRABLE STANDARDIZATION REQUIREMENTS. ADDITIONAL SECTIONS IN THE THESAURUS INCLUDE: (1) AN EXPLANATION OF AND EXAMPLES FOR USING THE TERMS, (2) A SUBJECT CATEGORY INDEX OF 22 MAJOR SUBJECT FIELDS, EACH OF WHICH IS SUBDIVIDED INTO GROUPS, AND IN SOME CASES, SUBGROUPS, AND (3) A HIERARCHICAL INDEX DISPLAYING THOSE DESCRIPTORS HAVING NO BROADER TERMS AND HAVING ONE OR MORE SUBORDINATE LEVELS. (BL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NO. 2403-0070, $3.25)

INSTITUTION NAME: BUREAU OF RECLAMATION (DEPT. OF INTERIOR), WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003386

ERIC ACCESSION NUMBER: ED070615

PUBLICATION DATE: 72

TITLE: HOW TO INVESTIGATE THE ENVIRONMENT IN THE CITY: AIR AND WATER.

PERSONAL AUTHOR: COX, DAVID C.

INSTITUTION CODE: FGK57300

DESCRIPTOR: *AIR POLLUTION CONTROL; ENVIRONMENTAL EDUCATION; EXPERIMENTS; INSTRUCTIONAL MATERIALS; INVESTIGATIONS; LEARNING ACTIVITIES; *STUDENT PROJECTS; *STUDY GUIDES; *URBAN ENVIRONMENT; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 12P.

ISSUE: RIEAPR73

ABSTRACT: TWO SIGNIFICANT ASPECTS OF THE URBAN ENVIRONMENT, AIR AND WATER, ARE FOCUSED UPON IN THIS INSTRUCTIONAL AID PAMPHLET. FOR EACH COMPONENT, THE RANGE OF POSSIBLE STUDIES IS SURVEYED, TOGETHER WITH THE STATE OF THE SITUATION AND ASSOCIATED PROBLEMS. SAMPLE EXPERIMENTS ARE SUGGESTED AND THEIR TEST PROCEDURES OUTLINED. WHERE SPECIAL EQUIPMENT, INEXPENSIVE TEST KITS, OR CHEMICALS ARE REQUIRED OR WOULD ENHANCE THE INVESTIGATION, THEY ARE DESCRIBED AND ILLUSTRATED. A SOURCE LIST OF ORGANIZATIONS, PERIODICALS, AND PUBLICATIONS IS ALSO SUPPLIED. (BL)

AVAILABILITY: NATIONAL SCIENCE TEACHERS ASSOCIATION, 1201 16TH ST., N.W., WASHINGTON, D.C. 20036 (STOCK NO. 471-14630, $0.50)

INSTITUTION NAME: NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003387

ERIC ACCESSION NUMBER: ED070613

PUBLICATION DATE: JUN 72

TITLE: INSTRUMENTAL SURVEILLANCE OF WATER QUALITY.

PERSONAL AUTHOR: MILLER, J. A.; AND OTHERS

DESCRIPTOR: COMPARATIVE ANALYSIS; ENVIRONMENT; *INSTRUMENTATION; *MEASUREMENT INSTRUMENTS; *MEASUREMENT TECHNIQUES; POLLUTION; *QUALITY CONTROL; TESTING; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 38P.

ISSUE: RIEAPR73

ABSTRACT: THE ROLE ANALYTICAL INSTRUMENTATION PERFORMS IN THE SURVEILLANCE AND CONTROL OF THE QUALITY OF WATER RESOURCES IS REVIEWED. COMMONLY PERFORMED ANALYSES MAY RANGE FROM SIMPLE TESTS FOR PHYSICAL PARAMETERS TO MORE HIGHLY SOPHISTICATED RADIOLOGICAL OR SPECTROPHOTOMETRIC METHODS. THIS PUBLICATION EXPLORES MANY OF THESE TYPES OF WATER QUALITY ANALYSES AND CAN SERVE AS A GUIDE FOR SELECTING THE MOST APPROPRIATE INSTRUMENTATION FOR A GIVEN WATER ANALYSIS. AREAS COVERED INCLUDE: OXYGEN MEASUREMENTS, BIOLOGICAL OXYGEN DEMAND, PH MEASUREMENT, SELECTION ELECTRODE MEASUREMENTS, ATOMIC ABSORPTION, NUCLEAR TECHNIQUES, ULTRAVIOLET SPECTROSCOPY, INFRARED SPECTROSCOPY, RAMAN SPECTROSCOPY, AND GAS CHROMATOGRAPHY. THE REQUIRED INSTRUMENTATION IS DESCRIBED AND SAMPLE ANALYSES ARE OFFERED TO ILLUSTRATE SPECIFIC WATER QUALITY APPLICATION. (BL)

AVAILABILITY: BECKMAN INSTRUMENTS, INC., 2500 HARBOR BLVD., FULLERTON, CALIFORNIA 92634

IRIS ACCESSION NUMBER: EW003388

ERIC ACCESSION NUMBER: ED070609

PUBLICATION DATE: 67

TITLE: TRAINING OF HYDROMETEOROLOGICAL PERSONNEL.

PERSONAL AUTHOR: HZMALJAN, K. A.; AND OTHERS

INSTITUTION CODE: BBB06183

DESCRIPTOR: *CURRICULUM GUIDES; ENVIRONMENTAL EDUCATION; *METEOROLOGY; *PERSONNEL; PROFESSIONAL PERSONNEL; QUALIFICATIONS; SPECIALISTS; SUBPROFESSIONALS; *TRAINING; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 49P.

ISSUE: RIEAPR73

ABSTRACT: A WORKING GROUP OF THE COMMISSION FOR HYDROMETEOROLOGY HAS PREPARED THIS REPORT TO FILL A NEED FOR DETAILED SYLLABI FOR INSTRUCTION IN HYDROMETEOROLOGY REQUIRED BY DIFFERENT LEVELS OF PERSONNEL. THIS SITUATION HAS BEEN BROUGHT ABOUT BY THE SHORTAGE OR LACK OF NATIONAL CADRES OF HYDROLOGISTS IN DEVELOPING COUNTRIES TO UNDERTAKE COMPREHENSIVE WATER MANAGEMENT INVESTIGATIONS AND MEASURES. HYDROMETEOROLOGISTS ARE CLASSIFIED IN THREE CATEGORIES: (1) SPECIALISTS WITH AT LEAST A UNIVERSITY DEGREE IN ENGINEERING OR APPROPRIATE SCIENCE, (2) SPECIALISTS TRAINED TO A SEMI-PROFESSIONAL TECHNICIAN LEVEL, AND (3) SPECIALLY TRAINED OBSERVERS, HYDROMETRIC ASSISTANTS. QUALIFICATIONS REQUIRED AT EACH LEVEL ARE ENUMERATED, TOGETHER WITH RECOMMENDED CURRICULA AND PROGRAMS FOR TRAINING EACH OF THE THREE CLASSES OF PERSONNEL. IN ADDITION, A NUMBER OF PROPOSALS ARE SUGGESTED REGARDING THE ORGANIZATION OF TRAINING HYDROMETEOROLOGICAL EXPERTS OF VARIOUS LEVELS FOR DEVELOPING COUNTRIES. THE NEED FOR CONCERTED ACTION OF ALL INTERNATIONAL ORGANIZATIONS IN THE TRAINING OF HYDROMETEOROLOGICAL STAFF IS ALSO BRIEFLY DESCRIBED. PUBLICATIONS OF THE WORLD METEOROLOGICAL ORGANIZATION ARE LISTED. (BL)

REPORT NUMBER: WMO-219-TP-116

INSTITUTION NAME: WORLD METEOROLOGICAL ORGANIZATION, GENEVA (SWITZERLAND).

IRIS ACCESSION NUMBER: EW003389

ERIC ACCESSION NUMBER: ED070503

PUBLICATION DATE: 72

TITLE: A SURVEY OF INDEXING AND ABSTRACTING SERVICES FOR WATER RESOURCES ENGINEERING.

PERSONAL AUTHOR: WELLISCH, HANS (HANAN)

INSTITUTION CODE: LYR46125

SPONSORING AGENCY CODE: BBB04155

DESCRIPTOR: *ABSTRACTING; *ENGINEERING; *INDEXING; INFORMATION RETRIEVAL; *INFORMATION SERVICES; INFORMATION STORAGE; SURVEYS; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 100P.;(21 REFERENCES)

ISSUE: RIEAPR73

ABSTRACT: THIS REPORT PROVIDES A COMPLETE AND UP-TO-DATE REVIEW OF THE ABSTRACTING AND INDEXING SERVICES AVAILABLE IN WATER RESOURCES ENGINEERING. BETWEEN 1955 AND 1970 THE NUMBER OF SERVICES IN THIS FIELD INCREASED FROM ABOUT 20 TO 40. THIS EXPONENTIAL GROWTH OR DOUBLING EVERY 15 YEARS SUGGESTS THAT BY 1985 THERE WILL BE 80 ABSTRACTING SERVICES IN EXISTENCE. ABSTRACTING AND INDEXING SERVICES WERE EVALUATED FROM ALL OVER THE WORLD TO FIND OUT WHETHER THE EXISTING SERVICES ARE ADEQUATE IN NUMBER, QUALITY AND COVERAGE. IN VIEW OF THE INCREASING TENDENCY TO RETRIEVE INFORMATION FROM SECONDARY LITERATURE TOOLS WITH THE HELP OF MACHINES, THE CRITERIA OF STANDARDIZATION OF DATA ELEMENTS AND OF COMPATIBILITY OF PRODUCTS WERE INVESTIGATED ALSO. SOME CONCLUSIONS AND RECOMMENDATIONS ARE GIVEN WITH THE AIM TO ASSIST EDITORS OF ABSTRACTING SERVICES TO ENHANCE THE VALUE OF THEIR PUBLICATIONS THROUGH THE INTRODUCTION OF USEFUL FEATURES WHICH ARE FOUND IN SOME BUT NOT ALL SERVICES, AND THE ELIMINATION OF CERTAIN SHORTCOMINGS. (TW)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VA., 22151 (PB-211 913; PC $4.85; MC $0.95)

INSTITUTION NAME: MARYLAND UNIV., COLLEGE PARK. SCHOOL OF LIBRARY AND INFORMATION SERVICES.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESOURCES RESEARCH.

IRIS ACCESSION NUMBER: EW003390

ERIC ACCESSION NUMBER: ED069501

PUBLICATION DATE: 71

TITLE: PRINCIPLES OF WATER QUALITY CONTROL.

PERSONAL AUTHOR: TEBBUTT, T. H. Y.

DESCRIPTOR: *ENGINEERING; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; POLLUTION; PUBLIC HEALTH; *SANITATION; TEXTBOOKS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 179P.

ISSUE: RIEMAR73

ABSTRACT: THIS BOOK IS DESIGNED AS A TEXT FOR UNDERGRADUATE CIVIL ENGINEERING COURSES AND AS PRELIMINARY READING FOR POSTGRADUATE COURSES IN PUBLIC HEALTH ENGINEERING AND WATER RESOURCES TECHNOLOGY. IT IS ALSO INTENDED TO BE OF VALUE TO WORKERS ALREADY IN THE FIELD AND TO STUDENTS PREPARING FOR THE EXAMINATIONS OF THE INSTITUTE OF WATER POLLUTION CONTROL AND THE INSTITUTION OF PUBLIC HEALTH ENGINEERS (ENGLAND). THE TEXT CONTAINS 18 CHAPTERS WHICH INCLUDE SUCH TOPICS AS: CHARACTERISTICS OF WATERS AND WASTEWATERS; BASIC ANALYSIS; BASIC MICROBIOLOGY; RIVER POLLUTION; INTRODUCTION TO TREATMENT PROCESSES; DISINFECTION; SLUDGE DEWATERING AND DISPOSAL; WATER RECLAMATION; AND TREATMENT PLANT DESIGN. (LK)

AVAILABILITY: PERGAMON PRESS, INC., MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NEW YORK 10523 ($5.50)

IRIS ACCESSION NUMBER: EW003391

ERIC ACCESSION NUMBER: ED068632

PUBLICATION DATE: JUL 72

TITLE: MANPOWER NEEDS IN ENVIRONMENTAL MANAGEMENT. RESEARCH REPORT OF A GRADUATE STUDY.

PERSONAL AUTHOR: HILLISON, JOHN H.; WARMBROD, J. ROBERT

INSTITUTION CODE: RUF67053; RUF67405

DESCRIPTOR: CURRICULUM DESIGN; *EMPLOYMENT PROJECTIONS; *ENVIRONMENTAL TECHNICIANS; *MANPOWER NEEDS; METROPOLITAN AREAS; RESEARCH METHODOLOGY; STATISTICAL DATA; *TASK ANALYSIS; *VOCATIONAL DEVELOPMENT; VOCATIONAL EDUCATION; WATER POLLUTION CONTROL; *OHIO

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 35P.

ISSUE: RIEFEB73

ABSTRACT: THIS REPORT SUMMARIZES A STUDY DESIGNED TO ASSESS CURRENT AND FUTURE MANPOWER NEEDS IN WASTEWATER TREATMENT, WATER TREATMENT, AND AIR POLLUTION CONTROL, AS WELL AS PERFORM TASK ANALYSES FOR THE PURPOSE OF DEVELOPING COURSES OF STUDY AND INSTRUCTIONAL MATERIALS. DATA WERE COLLECTED BY MEANS OF INTERVIEWS FOR ALL 10 AIR POLLUTION CONTROL AREAS IN OHIO, EIGHT WASTEWATER AND WATER TREATMENT FACILITIES FOR OHIO CITIES WITH A POPULATION UNDER 100,000, AND EIGHT WASTEWATER AND WATER TREATMENT FACILITIES FOR OHIO CITIES WITH A POPULATION OVER 100,000. DATA WERE COLLECTED BY MAIL QUESTIONNAIRE FOR 200 RANDOMLY SELECTED WASTEWATER AND WATER TREATMENT FACILITIES FOR OHIO CITIES WITH A POPULATION UNDER 100,000. AN ANTICIPATED INCREASE OF 109 PERSONS (A 31 PERCENT INCREASE) IN ALL WASTEWATER TREATMENT POSITIONS FROM 1971 TO 1974 WAS REPORTED. AN INCREASE OF 156 PERSONS (A 12 PERCENT INCREASE) IS EXPECTED FROM 1971 TO 1974 IN WATER TREATMENT POSITIONS, AND A 119 PERCENT INCREASE (152 PERSONS) IS ANTICIPATED FROM 1971 TO 1974 IN AIR POLLUTION CONTROL POSITIONS. THESE INCREASED PERSONNEL NEEDS JUSTIFY THE DEVELOPMENT OF TRAINING PROGRAMS IN ENVIRONMENTAL MANAGEMENT OCCUPATIONS. A PROPOSED CURRICULUM FOR A 2-YEAR PROGRAM IN THIS AREA IS INCLUDED. NUMEROUS TABLES PRESENT THE DATA. (AG)

INSTITUTION NAME: OHIO STATE DEPT. OF EDUCATION, COLUMBUS. AGRICULTURAL EDUCATION SERVICE.; OHIO STATE UNIV., COLUMBUS. DEPT. OF AGRICULTURAL EDUCATION.

IRIS ACCESSION NUMBER: EW003392

ERIC ACCESSION NUMBER: ED068275

PUBLICATION DATE: JUN 72

TITLE: BIBLIOGRAPHY OF WATER QUALITY RESEARCH REPORTS.

INSTITUTION CODE: BBB06757

DESCRIPTOR: *BIBLIOGRAPHIES; *ENVIRONMENTAL RESEARCH; GOVERNMENT PUBLICATIONS; POLLUTION; QUALITY CONTROL; *REPORTS; TECHNOLOGY; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 50P.; WATER POLLUTION CONTROL RESEARCH SERIES

ISSUE: RIEFEB73

ABSTRACT: PREPARED FOR THE ENVIRONMENTAL PROTECTION AGENCY (EPA), THIS BIBLIOGRAPHY OF PUBLISHED REPORTS COVERS INFORMATION CONCERNING THE ADVANCEMENT OF WATER POLLUTION CONTROL TECHNOLOGY AND KNOWLEDGE. THE REPORTS PROVIDE A CENTRAL SOURCE OF INFORMATION ON THE RESEARCH, DEVELOPMENT, AND DEMONSTRATION ACTIVITIES IN THE WATER RESEARCH PROGRAM OF THE EPA, THROUGH INHOUSE RESEARCH AND GRANTS AND CONTRACTS WITH FEDERAL, STATE, AND LOCAL AGENCIES, RESEARCH INSTITUTIONS, AND INDUSTRIAL ORGANIZATIONS. ITEMS ARE CATEGORIZED AS: (1) MUNICIPAL POLLUTION CONTROL, (2) INDUSTRIAL POLLUTION CONTROL, (3) AGRICULTURAL POLLUTION CONTROL, (4) MINING POLLUTION CONTROL, (5) OTHER SOURCES OF POLLUTION CONTROL, (6) WATER QUALITY CONTROL, (7) WASTE TREATMENT AND ULTIMATE DISPOSAL, AND (8) WATER QUALITY REQUIREMENTS RESEARCH. EACH ENTRY LISTS REPORT NUMBER, TITLE AND AUTHOR OF REPORT, SOURCE OF AVAILABILITY, AND COST OF PURCHASE. OVER 600 REPORTS ARE NOTED. (BL)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C. OFFICE OF RESEARCH AND MONITORING.

IRIS ACCESSION NUMBER: EW003393

ERIC ACCESSION NUMBER: ED067846

PUBLICATION DATE: 71

TITLE: INDEX TO ECOLOGY (MULTIMEDIA). FIRST EDITION.

INSTITUTION CODE: CIQ89260

DESCRIPTOR: *AUDIOVISUAL AIDS; BIOLOGICAL SCIENCES; CATALOGS; *ECOLOGY; EDUCATIONAL RESOURCES; *ENVIRONMENTAL EDUCATION; FILMS; INSTRUCTIONAL FILMS; INSTRUCTIONAL MEDIA; *MULTIMEDIA INSTRUCTION; PHONOTAPE RECORDINGS; POLLUTION; SOIL CONSERVATION; TAPE RECORDINGS; TRANSPARENCIES; VIDEO TAPE RECORDINGS; WATER POLLUTION CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 212P.

ISSUE: RIEFEB73

ABSTRACT: MORE THAN 7,000 FILMS, VIDEOTAPES, TRANSPARENCIES, RECORDINGS AND MULTIMEDIA PRESENTATIONS ABOUT ECOLOGY AND THE ENVIRONMENT ARE DESCRIBED IN THIS 211-PAGE CATALOG. TITLES ARE LISTED ALPHABETICALLY, AND EACH ENTRY PROVIDES A 10-50 WORD SUMMARY OF THE MATERIALS, DESCRIBES THE MEDIA USED, RUNNING TIME, AUDIENCE LEVEL, PRODUCTION DATE, AND THE NAME OF THE PRODUCER AND THE DISTRIBUTOR. TITLES ARE ALSO LISTED BY SUBJECT, AND BY PRODUCER AND DISTRIBUTOR. (MG)

AVAILABILITY: NATIONAL INFORMATION CENTER FOR EDUCATIONAL MEDIA, UNIVERSITY OF SOUTHERN CALIFORNIA, UNIVERSITY PARK, LOS ANGELES, CALIFORNIA 90007 ($22.50)

INSTITUTION NAME: UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. NATIONAL INFORMATION CENTER FOR EDUCATIONAL MEDIA.

IRIS ACCESSION NUMBER: EW003394

ERIC ACCESSION NUMBER: ED067255

PUBLICATION DATE: 72

TITLE: URBANIZATION, WATER POLLUTION, AND PUBLIC POLICY.

PERSONAL AUTHOR: CAREY, GEORGE W.; AND OTHERS

INSTITUTION CODE: BBB06648

DESCRIPTOR: *AREA STUDIES; ENVIRONMENTAL INFLUENCES; *METROPOLITAN AREAS; MODELS; *PUBLIC POLICY; REGIONAL PLANNING; SIMULATION; STATISTICAL DATA; *URBANIZATION;

WATER POLLUTION CONTROL; WATER RESOURCES; NEW YORK METROPOLITAN REGION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$11.40 PLUS POSTAGE

DESCRIPTIVE NOTE: 236P.

ISSUE: RIEJAN73

ABSTRACT: REVIEWED IN THIS REPORT IS A STUDY CONCERNED WITH WATER POLLUTION AS IT RELATES TO URBANIZATION WITHIN THE REGIONAL PLAN ASSOCIATION'S SET OF 21 CONTIGUOUS NEW YORK, NEW JERSEY AND CONNECTICUT COUNTIES CENTERED UPON THE NUMEROUS BAY AND ESTUARIAL REACHES OF THE PORT OF NEW YORK AND NEW JERSEY. WITH A TIME FRAME COVERING A DECADE OF WATER QUALITY AND POLLUTION DATA, AN ATTEMPT WAS MADE TO DEVISE PROJECTIONS FOR THE NEXT 15 YEARS WHICH MIGHT REVEAL HOW THE URBANIZATION PROCESS AND THE POLLUTION PROCESS INTERACT IN THE REGION. TO IMPLEMENT THIS TASK, SEVERAL STAGES OF RESEARCH WERE NECESSARY, AS DESCRIBED IN THE TEXT: (1) DEVELOPMENT OF A HYDROLOGIC DATA BANK, (2) SCREENING THE DATA, (3) DEVELOPMENT OF A PROJECTION MODEL TO ESTIMATE THE IMPACT ON WATER OF EFFLUENTS ASSOCIATED WITH INDUSTRIAL GROWTH AND POPULATION GROWTH, (4) CONSTRUCTION OF A COMPUTER MODEL TO SIMULATE THE BEHAVIOR OF A RIVER SYSTEM UNDER THE IMPACT OF URBANIZATION, AND (5) CHANGING THE MODEL'S PREMISES IN ACCORDANCE WITH DIFFERENT SETS OF ASSUMPTIONS AND REGIONAL GROWTH POLICIES TO CAST LIGHT ON HOW BEST TO ALLEVIATE POLLUTION EFFECTS. THIS REPORT CONCLUDES A TWO-PART STUDY, THE FIRST PART OF WHICH WAS PUBLISHED UNDER THE TITLE "BENEFITS FROM INTEGRATED WATER MANAGEMENT IN URBAN AREAS--THE CASE OF THE NEW YORK METROPOLITAN REGION." (BL)

AVAILABILITY: CENTER FOR URBAN POLICY RESEARCH, RUTGERS UNIVERSITY, NEW BRUNSWICK, NEW JERSEY 08903 ($10.00)

INSTITUTION NAME: RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N. J. CENTER FOR URBAN POLICY RESEARCH.

IRIS ACCESSION NUMBER: EW003395

ERIC ACCESSION NUMBER: ED067252

PUBLICATION DATE: 72

TITLE: SCIENTIFIC ALLOCATION OF WATER RESOURCES.

PERSONAL AUTHOR: BURAS, NATHAN

DESCRIPTOR: *ENGINEERING; ENVIRONMENT; HIGHER EDUCATION; INSTRUCTIONAL MATERIALS; PROBLEM SOLVING; *PROGRAMING; *SYSTEMS APPROACH; TECHNOLOGY; *WATER RESOURCES; DESIGN; OPERATIONS RESEARCH

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 208P.

ISSUE: RIEJAN73

ABSTRACT: ORIENTED FOR HIGHER EDUCATION STUDENTS, RESEARCHERS, PRACTICING ENGINEERS AND PLANNERS, THIS BOOK SURVEYS THE STATE OF THE ART OF WATER RESOURCES ENGINEERING. A BROAD SPECTRUM OF ISSUES IS EMBRACED IN THE TREATMENT OF WATER RESOURCES: QUANTITY ASPECTS AS WELL AS QUALITY ASPECTS WITHIN A SYSTEMS APPROACH. USING A RATIONAL MODE FOR WATER RESOURCES DEVELOPMENT AND UTILIZATION, THE TEXT OPENS WITH A DEFINITION OF THE FIELD OF WATER RESOURCES ENGINEERING, EMPHASIZING ITS NATURAL AND SOCIAL SCIENCES COMPONENTS, AND SUGGESTING A SYSTEMS APPROACH TO SOLVING THE COMPLEXITY OF PROBLEMS WITHIN THE FIELD. PROBLEMS IN WATER RESOURCES ENGINEERING ARE TREATED IN THREE BROAD CATEGORIES: DEVELOPMENT, DESIGN, AND OPERATIONAL PROBLEMS, TOGETHER WITH THE APPLICATION OF OPERATIONS RESEARCH METHODS. LINEAR AND DYNAMIC PROGRAMMING ARE DISCUSSED, INDICATING THEIR COMPONENTS, APPLICATION, AND USE IN A WIDE VARIETY OF SYSTEMS. BEFORE CONCLUDING THE MONOGRAPH, A SEPARATE CHAPTER DEALS WITH SIMULATION TECHNIQUES, INTRODUCING METHODS AS MONTE CARLO AND SYNTHETIC HYDROLOGY. REFERENCES AND APPROPRIATE INDEXES ARE PROVIDED. (BL)

AVAILABILITY: AMERICAN ELSEVIER PUBLISHING COMPANY, 52 VANDERBILT AVENUE, NEW YORK, NEW YORK 10017 ($12.95)

IRIS ACCESSION NUMBER: EW003396

ERIC ACCESSION NUMBER: ED067239

PUBLICATION DATE: 71

TITLE: WATER--1970. CHEMICAL ENGINEERING PROGRESS SYMPOSIUM SERIES NO. 107, VOLUME 67, 1971.

PERSONAL AUTHOR: CECIL, LAWRENCE K., ED.

INSTITUTION CODE: BBB06645

DESCRIPTOR: ANTHOLOGIES; CHEMISTRY; ENGINEERING; ENVIRONMENTAL INFLUENCES; *PHYSICAL SCIENCES; RESOURCE MATERIALS; *SPEECHES; *TECHNOLOGY; WASTES; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 610P.

ISSUE: RIEJAN73

ABSTRACT: DUE TO THE TREMENDOUS INTEREST IN ALL PHASES OF ENVIRONMENTAL CONTROL, PARTICULARLY WITH REFERENCE TO WATER POLLUTION CONTROL, THE AMERICAN INSTITUTE OF CHEMICAL ENGINEERS (AICHE) IS ATTEMPTING TO PROVIDE THE LAY PUBLIC WITH ACCURATE INFORMATION ABOUT WATER RESOURCES SO THEY MAY REACT WITH PROPER KNOWLEDGE AND CONSTRUCTIVE ACTIVITY. THIS ANTHOLOGY OF PAPERS PRESENTED AT AICHE MEETINGS DURING 1970 REPORTS ON THE RAPID PROGRESS MADE IN THE CONTROL OF THE AQUEOUS ENVIRONMENT. PRIMARILY OF VALUE TO CHEMICAL ENGINEERS, THE PAPERS DEAL WITH A VARIETY OF TOPICS FROM THERMAL CONDITIONS IN WATER AND PHOSPHORUS REMOVAL TO DESALTING POTENTIALS AND WASTE TREATMENT. NINETY-ONE PAPERS HAVE BEEN SELECTED FOR INCLUSION IN THIS RESOURCE. (BL)

AVAILABILITY: AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, 345 EAST 47 STREET, NEW YORK, NEW YORK 10017 ($15.00)

INSTITUTION NAME: AMERICAN INST. OF CHEMICAL ENGINEERS, NEW YORK, N. Y.

IRIS ACCESSION NUMBER: EW003397

ERIC ACCESSION NUMBER: ED067230

PUBLICATION DATE: 71

TITLE: A BIBLIOGRAPHY OF POPULAR BOOKS ON THE MARINE ENVIRONMENT AND WETLANDS ECOLOGY.

PERSONAL AUTHOR: SCHWEITZER, JAMES P.

INSTITUTION CODE: BBB06644

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; CURRICULUM DEVELOPMENT; *ECOLOGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LAND USE; MARINE BIOLOGY; *OCEANOLOGY; RESOURCE MATERIALS; SCIENCE EDUCATION; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 24P.

ISSUE: RIEJAN73

ABSTRACT: THIS IS AN ANNOTATED BIBLIOGRAPHY OF POPULAR BOOKS ON THE MARINE ENVIRONMENT AND WETLANDS ECOLOGY, PUBLISHED BY THE MARINE ENVIRONMENT CURRICULUM STUDY AT THE UNIVERSITY OF DELAWARE. THE BIBLIOGRAPHY RESULTED FROM THE WORK OF A SPECIAL REVIEW PANEL CONSISTING OF A PROFESSIONAL BIOLOGIST, A PROFESSOR OF SCIENCE EDUCATION, AND 15 TEACHERS. APPROXIMATELY 200 BOOKS WERE REVIEWED AND GROUPED INTO THREE CATEGORIES: POOR, FAIR, AND EXCELLENT. A BASIC LIST OF ABOUT 100 FROM THE LATTER TWO CATEGORIES WAS COMPILED. THE LIST IS NOT COMPREHENSIVE, FOR MANY EXCELLENT BOOKS WERE ELIMINATED BECAUSE THEY WERE NO LONGER IN PRINT. THE SELECTIONS WERE JUDGED TO CONTAIN TEACHING AND BACKGROUND MATERIAL USEFUL IN K-12 MARINE STUDIES AND WETLANDS PROGRAMS. ORGANIZED IN TWO PARTS--"THE MARINE ENVIRONMENT" AND "WETLANDS ECOLOGY"--EACH ENTRY PROVIDES COMPLETE BIBLIOGRAPHICAL INFORMATION INCLUDING PUBLISHER'S PRICE AND APPROPRIATE GRADE LEVEL. A DIRECTORY OF PUBLISHERS IS APPENDED. (LK)

AVAILABILITY: ERIC/SMEAC, 1460 WEST LANE AVENUE, COLUMBUS, OHIO 43221 (ON LOAN)

INSTITUTION NAME: DELAWARE UNIV., NEWARK. MAINE ENVIRONMENT CURRICULUM STUDY.

IRIS ACCESSION NUMBER: EW003398

ERIC ACCESSION NUMBER: ED067224

PUBLICATION DATE: 70

TITLE: WATER FILMS, 2ND EDITION, 1965-1974.

INSTITUTION CODE: BBB06642

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSERVATION EDUCATION; ECOLOGY; *ENVIRONMENTAL EDUCATION; FILMS; *LAND USE; OCEANOLOGY; POLLUTION; *WATER RESOURCES; *HYDROLOGY; *WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$9.00 PLUS POSTAGE

DESCRIPTIVE NOTE: 181P.

ISSUE: RIEJAN73

ABSTRACT: THIS IS AN ANNOTATED LISTING OF 455 FILMS ON HYDROLOGY, AS WELL AS ON MANY ALLIED FIELDS. THIS SECOND EDITION, MUCH MORE COMPREHENSIVE THAN THE FIRST, IS NOT INTENDED TO SERVE AS A CRITICAL EVALUATION, BUT SHOULD BE USED SOLELY AS A SOURCE OF INFORMATION AS TO WHAT FILMS ARE AVAILABLE. ALL FILMS ARE LISTED ALPHABETICALLY ACCORDING TO THEIR TITLES WITHIN THEIR SUBJECT CLASSIFICATIONS: HYDROLOGY, METEROLOGY, GROUNDWATER, SNOW AND ICE, GLACIOLOGY, GEOMORPHOLOGY, HYDRAULICS, WATER QUALITY, CONSERVATION, OCEANOGRAPHY, AND HYDROELECTRIC PROJECTS. TWO APPENDICES--THE FIRST A TITLE INDEX, AND THE SECOND, A SOURCE LIST, GIVE THE NAMES AND ADDRESSES OF THE ORGANIZATIONS FROM WHICH THE FILMS MAY BE OBTAINED. (LK)

INSTITUTION NAME: CANADIAN NATIONAL COMMITTEE, OTTAWA (ONTARIO).

IRIS ACCESSION NUMBER: EW003399

ERIC ACCESSION NUMBER: ED049940

PUBLICATION DATE: MAR 71

TITLE: HAZARDS OF MERCURY.

DESCRIPTOR: *BIOLOGICAL SCIENCES; CHEMISTRY; *ENVIRONMENTAL INFLUENCES; FISHERIES; *HEALTH; PERIODICALS; PESTICIDES; *POLLUTION; RESEARCH; *TECHNICAL REPORTS; *MERCURY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 74P.; REPRINT

ISSUE: RIEAUG71

ABSTRACT: COMMON CONCERN FOR THE PROTECTION AND IMPROVEMENT OF THE ENVIRONMENT AND THE ENHANCEMENT OF HUMAN HEALTH AND WELFARE UNDERSCORE THE PURPOSE OF THIS SPECIAL REPORT ON THE HAZARDS OF MERCURY DIRECTED TO THE SECRETARY'S PESTICIDE ADVISORY COMMITTEE, DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE. THE REPORT SUMMARIZES THE FINDINGS OF A TEN-MEMBER STUDY GROUP AND SETS FORTH RECOMMENDATIONS RELATING TO MAJOR STEPS WHICH SHOULD BE TAKEN IN THIS COUNTRY TO DEFINE AND CORRECT THE PROBLEM OF MERCURY POLLUTION. CURRENTLY, THE PROBLEM IS DIVIDED INTO TWO BROAD PARTS: ONE RELATES TO THE TOXICITY OF UNMODIFIED MERCURY PESTICIEES AND THE OTHER TO ACCUMULATIONS IN AQUATIC SYSTEMS OF ALKYLATED MERCURY FROM A VARIETY OF SOURCES, SPECIFICALLY METHYLMERCURY IN FISH AND

SHELLFISH. CHAPTERS DEAL WITH: MEDICAL IMPLICATIONS OF INGESTION OF MERCURY, MICROBIAL TRANSFORMATION OF MERCURY, SOURCES, DISTRIBUTION AND CONTROL OF MERCURY, ECOLOGICAL EFFECTS OF METHYLMERCURY CONTAMINATION, FARMING-FOOD-FORESTRY, AIRBORNE MERCURY, AND ANALYTICAL METHODS. TABLES, FIGURES, AND REFERENCES SUPPLEMENT THE INFORMATION. (BL)

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, N.Y. 10003

JOURNAL CITATION: ENVIRONMENTAL RESEARCH; V4 N1 P1-69 MAR 71

IRIS ACCESSION NUMBER: EW003400

ERIC ACCESSION NUMBER: ED066576

PUBLICATION DATE: 71

TITLE: CRITERIA FOR THE ESTABLISHMENT AND MAINTENANCE OF TWO YEAR POST HIGH SCHOOL WASTEWATER TECHNOLOGY TRAINING PROGRAMS. VOLUME II: CURRICULUM GUIDELINES.

INSTITUTION CODE: BBB06557

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *BEHAVIORAL OBJECTIVES; *CURRICULUM DEVELOPMENT; EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *GUIDELINES; POST SECONDARY EDUCATION; PROGRAM DEVELOPMENT; *TECHNICAL EDUCATION; VOCATIONAL EDUCATION; *WATER POLLUTION CONTROL; BEGINNING COMPETENCE; EMPLOYMENT SKILLS; *OPERATIONS (WASTEWATER); UNIT PROCESSES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$23.40 PLUS POSTAGE

DESCRIPTIVE NOTE: 480P.

ISSUE: RIEDEC72

ABSTRACT: THIS PUBLICATION, PREPARED BY REPRESENTATIVES FROM THE ENVIRONMENTAL PROTECTION AGENCY, PLANT OPERATIONS, VOCATIONAL-TECHNICAL SCHOOLS, PROFESSIONAL ASSOCIATIONS, AND UNIVERSITIES IS THE SECOND OF A TWO-VOLUME SERIES AND CONTAINS GUIDELINES WHICH MAY BE USED IN ESTABLISHING A TWO-YEAR OR LESS POST-SECONDARY WASTEWATER TECHNOLOGY TRAINING PROGRAM. FOCUSING ON THE POSTTRAINING PERFORMANCE DESIRED OF TRAINEES, THE GUIDELINES ARE DESIGNED TO PROVIDE PRACTICAL, HANDS-ON SKILL AND KNOWLEDGE DIRECTLY RELATED TO THE OPERATION AND MANAGEMENT OF A WASTEWATER TREATMENT PLANT. THE GUIDELINES CONSIST OF SPECIFIC BEHAVIOR SHEETS WHICH ARE GROUPED ACCORDING TO SEVEN GENERAL CRITERION BEHAVIOR CATEGORIES AND CONTAIN A COMPOSITE MODEL PLANT PROCESS NAME AND LETTER DESIGNATION, SPECIFIC PROCESS UNITS, AND STIMULUS AND RESPONSE DETAIL. AN INTRODUCTORY SECTION DESCRIBES THE COMPONENTS OF THE BEHAVIOR SHEETS AND USE OF THE GUIDELINES. A PROCESS CHART AND SPECIFIC PROCESS UNITS FOR A COMPOSITE MODEL PLANT, STIMULUS AND RESPONSE DETAIL FOR THE GENERAL CRITERION BEHAVIORS, TRAINEE CHARACTERISTICS AND A GLOSSARY ARE APPENDED. VOLUME I CONTAINING PROGRAM GUIDELINES IS AVAILABLE AS VT 016 376 IN THIS ISSUE. (SB)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003401

ERIC ACCESSION NUMBER: ED066575

PUBLICATION DATE: 70

TITLE: CRITERIA FOR THE ESTABLISHMENT AND MAINTENANCE OF TWO YEAR POST HIGH SCHOOL WASTEWATER TECHNOLOGY TRAINING PROGRAMS. VOLUME I: PROGRAM CRITERIA.

INSTITUTION CODE: BBB06557

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: EDUCATIONAL PROGRAMS; *EDUCATIONAL SPECIFICATIONS; ENVIRONMENTAL EDUCATION; *EVALUATION CRITERIA; *GUIDELINES; POST SECONDARY EDUCATION; PROGRAM GUIDES; *TECHNICAL EDUCATION; *WATER POLLUTION CONTROL; *CURRICULUM; *INSTRUCTION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 49P.

ISSUE: RIEDEC72

ABSTRACT: THIS PROGRAM GUIDE, PREPARED BY REPRESENTATIVES FROM THE ENVIRONMENTAL PROTECTION AGENCY, PLANT OPERATIONS, VOCATIONAL-TECHNICAL SCHOOLS, PROFESSIONAL ASSOCIATIONS, AND UNIVERSITIES, IS THE FIRST OF A TWO-VOLUME SERIES AND PROVIDES AN OVERALL STATEMENT OF THE CRITERIA FOR THE SELECTION OF INSTITUTIONS AS TRAINING FACILITIES FOR WASTEWATER TECHNOLOGY TRAINING PROGRAMS. THESE CRITERIA, WHICH ARE IN A FORM APPROPRIATE FOR SOLICITING SELF-APPRAISAL BY INTERESTED INSTITUTIONS, COVER SUCH ASPECTS AS: (1) PHILOSOPHY AND PURPOSE OF THE INSTITUTION, (2) CURRICULUM, (3) INSTRUCTIONAL METHODS AND MEDIA, (4) RECRUITMENT OF TRAINEES AND PLACEMENT OF GRADUATES, AND (5) APPLICATION AND IMPLEMENTATION PROCEDURES. SUPPORTING THE BASIC SELF-APPRAISAL CRITERIA ARE STATEMENTS ON TRAINEE CHARACTERISTICS BEFORE AND AFTER TRAINING, THE FORM AND FUNCTION OF THE MANAGEMENT STRUCTURE FOR THE OVERALL PROGRAM, AND A GLOSSARY OF IMPORTANT TERMINOLOGY. VOLUME II CONTAINING THE CURRICULUM GUIDELINES IS AVAILABLE AS VT 016 377 IN THIS ISSUE. (AUTHOR/SB)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003402

ERIC ACCESSION NUMBER: ED066340

PUBLICATION DATE: 72

TITLE: SYSTEMS APPROACH TO ENVIRONMENTAL POLLUTION.

PERSONAL AUTHOR: CHACKO, GEORGE K., ED.

INSTITUTION CODE: BBB06610

DESCRIPTOR: *AIR POLLUTION CONTROL; CONFERENCE REPORTS ENVIRONMENT; MANAGEMENT SYSTEMS; *OPERATIONS RESEARCH POLLUTION; PROBLEM SOLVING; *SYSTEMS APPROACH; *WASTES *WATER POLLUTION CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 419P.; PROCEEDINGS OF THE SYMPOSIUM O ENVIRONMENTAL POLLUTION OF THE ORSA AT THE 137TH ANNUA MEETING OF THE AMERICAN ASSOC. FOR THE ADVANCEMENT O SCIENCE

ISSUE: RIEDEC72

ABSTRACT: THE OBJECTIVE OF A TWO-DAY SYMPOSIUM ON SYSTEM APPROACH TO ENVIRONMENTAL POLLUTION OF THE OPERATION RESEARCH SOCIETY OF AMERICA AT THE 137TH ANNUAL MEETING O THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE DECEMBER 27-28, 1970 IN CHICAGO, ILLINOIS, WAS NOT TO RAIS THE LITANY OF A SYSTEMS APPROACH AS THE ANSWER TO AL ENVIRONMENTAL PROBLEMS. INSTEAD, THE EMPHASIS WAS UPON WHA IT CAN AND CANNOT DO FOR SPECIFIC ASPECTS OF THE PROBLEM O ENVIRONMENTAL POLLUTION. SYMPOSIUM PRESENTATIONS AN EXCHANGES ARE FURNISHED IN THESE CONFERENCE PROCEEDINGS IN MANNER RETAINING AS MUCH ORIGINAL DIALOG AS PUSSIBLE, WIT NO EFFORT TO ENDORSE OR ADVOCATE A UNIFIED POSITION O CONCENSUS. FOUR PRIMARY SESSIONS WERE HELD: THREE ON WATER AIR, AND SOLID WASTES POLLUTION, AND ONE ON SYSTEMS APPROAC TO POLLUTION AS A WHOLE. FEATURED WITHIN THE TEXT ARE: REVIEW OF ANALYTICAL MODELS APPLICABLE TO POLLUTION, NE YORK CITY'S EXPERIENCE WITH POLLUTION CONTROL, A DISCUSSIO OF MICRO AND MACRO ASPECTS OF POLLUTION, EMPHASIS UPON TH OPERATIONAL PROBLEMS OF POLLUTION CONTROL, AND A PERSPECTIV OF THE LARGE ISSUES OF POLLUTION. (BL)

AVAILABILITY: ORSA HEALTH APPLICATIONS SECTION, 5733 NORT 27TH STREET, ARLINGTON, VIRGINIA 22207

INSTITUTION NAME: OPERATIONS RESEARCH SOCIETY OF AMERICA ARLINGTON, VA.

IRIS ACCESSION NUMBER: EW003403

ERIC ACCESSION NUMBER: ED066339

PUBLICATION DATE: JAN 72

TITLE: ENVIRONMENTAL RESEARCH, A STATUS REPORT.

INSTITUTION CODE: BBB06609

DESCRIPTOR: AIR POLLUTION CONTROL; ENVIRONMENTA INFLUENCES; *ENVIRONMENTAL RESEARCH; FUELS; NATURA RESOURCES; *PETROLEUM INDUSTRY; *PROJECTS; *QUALITY CONTROL *REPORTS; WASTE DISPOSAL; WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$6.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 146P.

ISSUE: RIEDEC72

ABSTRACT: SUMMARIZED IN THIS REPORT ARE ALL ENVIRONMENTA RESEARCH PROJECTS SPONSORED BY THE AMERICAN PETROLEU INSTITUTE (API). INCLUDED ARE: (1) STATUS REPORTS ON AL CURRENT PROJECTS, (2) PUBLISHED REPORTS ON COMPLETE PROJECTS, TOGETHER WITH ABSTRACTS OF FINDINGS, AND (3) A ORGANIZATION CHART OF THE COMMITTEE FOR AIR AND WATE CONSERVATION AND ITS VARIOUS SUBCOMMITTEES, WITH LISTINGS O COMMITTEE MEMBERSHIPS. COMMITTEES REPORTING ON CURREN PROJECTS ARE: HEALTH AND BIOLOGICAL RESEARCH, ENGINEERIN AND TECHNICAL RESEARCH, AIR POLLUTION RESEARCH ADVISORY WILDLIFE CONSERVATION LIAISON, AND DIVISION OF REFINING EACH OF THE 82 ACCOUNTS OUTLINES THE PROJECT NAME AN NUMBER, OBJECTIVES, CONTRACTOR, AND STATUS. FOLLOWING THI ABSTRACTS OF 79 COMPLETED PROJECTS, WITH THE NAME AND NUMBE OF THEIR PUBLISHED REPORT, ARE COMPILED. MISCELLANEOUS AP ENVIRONMENTAL REPORTS, MEDICAL RESEARCH REPORTS, AND AI QUALITY MONOGRAPH SERIES ARE ALSO LISTED AND ANNOTATED. (BL

AVAILABILITY: COMMITTEE FOR AIR AND WATER CONSERVATION AMERICAN PETROLEUM INSTITUTE, 1801 "K" STREET, N.W. WASHINGTON, D.C. 20006

INSTITUTION NAME: AMERICAN PETROLEUM INST., WASHINGTON, D C. COMMITTEE FOR AIR AND WATER CONSERVATION.

IRIS ACCESSION NUMBER: EW003404

ERIC ACCESSION NUMBER: ED066334

PUBLICATION DATE: JUL 72

TITLE: SUMMARY ANALYSIS UNITED STATES WATER RESOURCE COUNCIL .

PERSONAL AUTHOR: ROOSE, JOHN B.; COBB, GARY D.

INSTITUTION CODE: BBB06624

DESCRIPTOR: ADMINISTRATIVE PRINCIPLES; *CONTENT ANALYSIS *ENVIRONMENT; FEDERAL GOVERNMENT; LAND USE; PLANNING *PROGRAM PROPOSALS; *PUBLIC OPINION; STANDARDS; *SUMMATIV EVALUATION; WATER RESOURCES; *REGULATIONS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$16.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 338P.

ISSUE: RIEDEC72

ABSTRACT: THIS REPORT CONTAINS A SUMMARY AND ANALYSIS O

PUBLIC RESPONSE TO THE WATER RESOURCES COUNCIL PROPOSED PRINCIPLES AND STANDARDS AND ITS ACCOMPANYING DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR PLANNING THE USE OF WATER AND RELATED LAND RESOURCES AS WELL AS PLANNING AND EVALUATING WATER AND RELATED LAND RESOURCES PROGRAMS AND PROJECTS. BOTH WRITTEN AND ORAL STATEMENTS (4,782) RECEIVED IN PUBLIC REVIEW FROM INTERESTED CITIZENS, PERSONS SPEAKING ON BEHALF OF ORGANIZATIONS, AND ELECTED OFFICIALS ARE COMPILED IN THE SUMMARY/ANALYSIS. PART I RECORDS QUOTED AND SUMMARIZED EXCERPTS FROM THE PUBLIC RECORD AS WELL AS GENERAL RESPONSES. PART II PROVIDES AN ANALYSIS OF PUBLIC COMMENT ON ISSUES IDENTIFIED IN THE PUBLIC RECORD. GENERALLY THE ISSUES FALL INTO THE FOLLOWING MAJOR AREAS: (1) IMPLEMENTATION OF THE PRINCIPLES AND STANDARDS, (2) OBJECTIVES, (3) CRITERIA FOR PLAN FORMULATION AND EVALUATION, (4) PROGRAM COVERAGE AND COORDINATION, (5) OUTPUT AND BENEFICIARIES, (6) COST SHARING AND ALLOCATION, AND (7) ENVIRONMENTAL STATEMENT. THE TREATMENT OF EACH ISSUE CONSISTS OF A STATEMENT OF THE ISSUE AS PROPOSED IN THE PRINCIPLES AND STANDARDS, THE FREQUENCY DISTRIBUTION OF THE VIEWS AND COMMENTS ON VARIOUS SIDES OF AN ISSUE, AND A SUMMARY OF THE COMMENTS ON ONE OR BOTH SIDES. PRINCIPLES AND STANDARDS APPEARED IN THE FEDERAL REGISTER, DECEMBER 21, 1971, VOLUME 36, PART II (ED 058 070). (BL)

INSTITUTION NAME: WATER RESOURCES COUNCIL, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003405

ERIC ACCESSION NUMBER: ED066323

PUBLICATION DATE: 71

TITLE: ANNUAL BOOK OF ASTM STANDARDS, PART 23: WATER; ATMOSPHERIC ANALYSIS.

INSTITUTION CODE: BBB06606

DESCRIPTOR: CONTENT ANALYSIS; MEASUREMENT INSTRUMENTS; MEASUREMENT TECHNIQUES; PHYSICAL SCIENCES; REFERENCE MATERIALS; *STANDARDS; *TESTING; *THERMAL ENVIRONMENT; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 936P.

ISSUE: RIEDEC72

ABSTRACT: STANDARDS FOR WATER AND ATMOSPHERIC ANALYSIS ARE COMPILED IN THIS SEGMENT, PART 23, OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) ANNUAL BOOK OF STANDARDS. IT CONTAINS ALL CURRENT FORMALLY APPROVED ASTM STANDARD AND TENTATIVE TEST METHODS, DEFINITIONS, RECOMMENDED PRACTICES, PROPOSED METHODS, CLASSIFICATIONS, AND SPECIFICATIONS. ONE HUNDRED FORTY STANDARDS ARE CITED TOGETHER WITH RELATED MATERIAL: EXCERPTS FROM THE METRIC PRACTICE GUIDE, AN INTRODUCTION TO LABORATORY PRACTICES, ABBREVIATED TEST METHODS FOR ANALYSIS OF WATER IN THE EVAPORATIVE INDUSTRY, AND A SUBJECT INDEX. CHARTS, DIAGRAMS, PICTURES, AND STATISTICAL DATA ARE GIVEN WHERE NECESSARY. THIS VOLUME IS ONE OF 33 PARTS WHICH COMPRISE THE "1971 ANNUAL BOOK OF ASTM STANDARDS." (BL)

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE ST., PHILADELPHIA, PA. 19103 ($31.00)

INSTITUTION NAME: AMERICAN SOCIETY FOR TESTING AND MATERIALS, PHILADELPHIA, PA.

IRIS ACCESSION NUMBER: EW003406

ERIC ACCESSION NUMBER: ED045399

PUBLICATION DATE: DEC 69

TITLE: REPORT ON THE SECRETARY'S COMMISSION ON PESTICIDES AND THEIR RELATIONSHIP TO ENVIRONMENTAL HEALTH, PARTS 1 AND 2.

INSTITUTION CODE: BBB03839

DESCRIPTOR: AGRICULTURE; BIOLOGY; *ENVIRONMENT; *GOVERNMENT POLICY; HERBICIDES; INSECTICIDES; *MEDICINE; *PESTICIDES; POLLUTION; PUBLIC HEALTH; *LEGISLATION

EDRS PRICE: EDRS PRICE MF-$1.20 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 677P.

ISSUE: RIEAPR71

ABSTRACT: THE REPORT RECOMMENDS GOVERNMENT ACTIONS THAT SHOULD BE TAKEN CONCERNING (1) THE COORDINATION OF INFORMATION DISSEMINATION AND RESEARCH RELATED TO THE EFFECTS OF PESTICIDES; (2) THE CONTROL OR ELIMINATION OF THE USE OF SPECIFIC PERSISTENT PESTICIDES IN THE UNITED STATES, AND THE DEVELOPMENT OF STANDARDS FOR THE EXPOSURE OF HUMANS TO INSECTICIDES IN FOOD, WATER, AND AIR; AND (3) REGULATION AND LEGISLATION CONCERNING PESTICIDE DEVELOPMENT, TESTING AND USE. THESE RECOMMENDATIONS ARE BASED ON THE EXTENSIVE REVIEWS OF THE LITERATURE INCLUDED AS PART 2 OF THE REPORT. THE TOPICS REVIEWED WERE: (1) USES AND BENEFITS; (2) CONTAMINATION; (3) EFFECTS ON NON-TARGET ORGANISMS OTHER THAN MAN; (4) EFFECTS ON MAN; (5) CARCINOGENICITY; (6) INTERACTION (IN TARGET AND NON-TARGET ORGANISMS); (7) MUTAGENICITY; AND (8) TERATOGENICITY (ABNORMALITIES OF PRENATAL ORIGIN). BIBLIOGRAPHIES ARE INCLUDED IN EACH REVIEW. REVIEWS INDICATE NEEDED RESEARCH AS WELL AS AVAILABLE DATA. POSSIBLE ALTERNATIVE MEANS OF PEST CONTROL ARE CONSIDERED IN REVIEWS 1, 2, AND 3. (AL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. HE 1.2:P-83/PT. 1,2, $3.00)

INSTITUTION NAME: DEPARTMENT OF HEALTH , EDUCATION, AND WELFARE, WASHINGTON., D.C. OFFICE OF THE SECRETARY.

IRIS ACCESSION NUMBER: EW003407

ERIC ACCESSION NUMBER: ED064114

PUBLICATION DATE: 69

TITLE: METHODS FOR CHEMICAL ANALYSIS OF FRESH WATERS.

PERSONAL AUTHOR: GOLTERMAN, H. L.

INSTITUTION CODE: BBB06366

DESCRIPTOR: *CHEMICAL ANALYSIS; *FIELD STUDIES; *LABORATORY TECHNIQUES; MANUALS; POLLUTION; RESEARCH METHODOLOGY; RESOURCE MATERIALS; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 172P.; IBP HANDBOOK NO. 8

ISSUE: RIEOCT72

ABSTRACT: THIS MANUAL, ONE OF A SERIES PREPARED FOR THE GUIDANCE OF RESEARCH WORKERS CONDUCTING STUDIES AS PART OF THE INTERNATIONAL BIOLOGICAL PROGRAMME, CONTAINS RECOMMENDED METHODS FOR THE ANALYSIS OF FRESH WATER. THE TECHNIQUES ARE GROUPED IN THE FOLLOWING MAJOR SECTIONS: SAMPLE TAKING AND STORAGE; CONDUCTIVITY, PH, OXIDATION-REDUCTION POTENTIAL, ALKALINITY, TOTAL CO2, ACIDITY; MAJOR ELEMENTS (CALCIUM, MAGNESIUM, SODIUM, IRON II AND III, CHLORIDE, SULPHATE, SULPHIDE, CARBONATE AND BICARBONATE IONS); MINOR ELEMENTS (NITROGEN, PHOSPHOROUS, AND SILICON COMPOUNDS); TRACE ELEMENTS (BORON, COBALT, COPPER, IRON, MANGANESE, MOLYBDENUM, VANADIUM, AND ZINC); ORGANIC SUBSTANCES, INCLUDING BIOLOGICAL AND CHEMICAL OXYGEN DEMAND; AND DISSOLVED GASES (OXYGEN, NITROGEN, CARBON DIOXIDE, HYDROGEN, AND METHANE). THERE IS A THEORETICAL ADDENDUM CONSIDERING THE ELECTROCHEMICAL PROPERTIES OF WATER, A BIBLIOGRAPHY OF HANDBOOKS AND OTHER REFERENCES, A LIST OF EQUIPMENT MANUFACTURERS, AND AN APPENDIX CONTAINING A PRELIMINARY REPORT ON THE EFFECT OF BRACKISH WATERS ON THE RECOMMENDED CHEMICAL TECHNIQUES. (AL)

AVAILABILITY: F. A. DAVIS COMPANY, 1915 ARCH STREET, PHILADELPHIA, PENNSYLVANIA 19103 ($6.50)

INSTITUTION NAME: INTERNATIONAL BIOLOGICAL PROGRAMME, LONDON (ENGLAND).

IRIS ACCESSION NUMBER: EW003408

ERIC ACCESSION NUMBER: ED064086

PUBLICATION DATE: 72

TITLE: A NATIONWIDE SURVEY OF ENVIRONMENTAL PROTECTION.

INSTITUTION CODE: BBB06336

DESCRIPTOR: AIR POLLUTION CONTROL; *ATTITUDES; BUSINESS; *ENVIRONMENT; INDUSTRY; *NATIONAL SURVEYS; *POLLUTION; WATER POLLUTION CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 92P.

ISSUE: RIEOCT72

ABSTRACT: THIS STUDY WAS MADE IN TWO PHASES. PHASE 1 WAS CONDUCTED TO OBTAIN EXTENSIVE INFORMATION ABOUT "THE WALL STREET JOURNAL'S" SUBSCRIBERS ON THEIR BUSINESS ACTIVITIES, PURCHASING INFLUENCE, INVOLVEMENT IN POLLUTION CONTROL, PERSONAL RESOURCES, ETC. THOSE PERSONALLY ACTIVE IN ANTI-POLLUTION PROGRAMS RECEIVED A SECOND SURVEY DEALING WITH ENVIRONMENTAL PROTECTION. THE MAJORITY OF RESPONDENTS AGREED THAT GOVERNMENT SHOULD PLAY AN EXTENSIVE ROLE IN THE SOLUTION OF ENVIRONMENTAL AND POLLUTION CONTROL PROBLEMS. OF RESPONDENTS IN BUSINESS AND INDUSTRY, 69 PERCENT REPORTED THAT ANTI-POLLUTION OR RELATED PROBLEMS PRESENTLY AFFECTED THEIR COMPANY OR ARE LIKELY TO DO SO IN THE FUTURE. OF THE RESPONDENTS IN FIRMS WITH ENVIRONMENTAL PROBLEMS, 30 PERCENT REPORTED THAT PRIMARY RESPONSIBILITY FOR ANTI-POLLUTION EFFORTS WAS HANDLED ON THE CORPORATE LEVEL, COMPARED WITH 45 PERCENT WHO SAID THE RESPONSIBILITY RESTS WITH PLANT MANAGEMENT; ONE OUT OF FOUR SAID THEIR COMPANY MANUFACTURES OR PROVIDES ANTI-POLLUTION PRODUCTS OR SERVICES TO OTHERS; AND 57 PERCENT STATED THAT THEIR JOB FUNCTION WAS IN THE ENVIRONMENTAL PROTECTION FIELD. (AUTHOR/CP)

AVAILABILITY: THE WALL STREET JOURNAL, 30 BROAD STREET, NEW YORK, NEW YORK 10004 ($3.00)

INSTITUTION NAME: ERDOS & MORGAN, INC., NEW YORK, N. Y.

IRIS ACCESSION NUMBER: EW003409

ERIC ACCESSION NUMBER: ED063160

PUBLICATION DATE: OCT 71

TITLE: SOIL AND WATER CONSERVATION FOR A BETTER AMERICA. A FRAMEWORK PLAN.

INSTITUTION CODE: BBB03961

DESCRIPTOR: *AGENCY ROLE; CONSERVATION EDUCATION; ECOLOGY; *ENVIRONMENT; *MANAGEMENT; *MASTER PLANS; *NATURAL RESOURCES; PROGRAM DESCRIPTIONS; RESPONSIBILITY; SOIL CONSERVATION; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$4.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 90P.

ISSUE: RIESEP72

ABSTRACT: THROUGH THIS FRAMEWORK PLAN, THE SOIL CONSERVATION SERVICE (SCS) TAKES A LOOK AHEAD TO ITS SOIL AND WATER CONSERVATION MISSION, A LOOK AT ITS DIRECTION AND THRUST IN HELPING CREATE A DESIRABLE AMERICA IN THE DECADES AHEAD. THE PLAN ATTEMPTS TO DEFINE THE NATURE OF SOIL AND WATER CONSERVATION EFFORTS, TO PUT THEM IN PERSPECTIVE, AND TO PRESENT A SYSTEMATIC ARRANGEMENT OF SCS RESPONSIBILITIES.

UTILIZING A SYSTEMS APPROACH TO LONG-RANGE PLANNING, THE PLAN: (1) REFLECTS THE SOCIAL AND ECONOMIC SETTING FOR SOIL AND WATER CONSERVATION, (2) SUMMARIZES THE NATION'S NEEDS FOR SOIL AND WATER CONSERVATION, (3) OUTLINES THE BASIC OBJECTIVES FOR A COMPREHENSIVE CONSERVATION PROGRAM, (4) SHOWS HOW THE OBJECTIVES, BENEFITS, EFFECTS, RESOURCE MANAGEMENT SYSTEMS, AND PROGRAM ACTIVITIES OF SCS RELATE TO ONE ANOTHER, AND (5) SETS FORTH A HIERARCHY OF GOALS, THE FUTURE NEEDS, AND THE INSTITUTIONAL ARRANGEMENTS NEEDED TO ATTAIN THE MISSION OBJECTIVES AND SUPPORT THE FUTURE DIRECTION OF SCS. THE FRAMEWORK FOR PLANNING AND PROGRAMMING, MISSION GOALS, AND PROGRAM ACTIVITIES FOR RESOURCE MANAGEMENT SYSTEMS ARE PRODUCED IN CHART FORM IN THE APPENDIX. (BL)

INSTITUTION NAME: SOIL CONSERVATION SERVICE (USDA), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003410

ERIC ACCESSION NUMBER: ED061764

PUBLICATION DATE: APR 72

TITLE: NORTH OF THE NAMASKEAG; A CASE STUDY IN VIEWER-ACTIVE TELEVISION.

PERSONAL AUTHOR: VAN DE BOGART, ERIK

INSTITUTION CODE: BBB06117

DESCRIPTOR: *AUDIENCE PARTICIPATION; *CITIZEN PARTICIPATION; CITY GOVERNMENT; *ENVIRONMENTAL EDUCATION; *PUBLIC TELEVISION; *SIMULATION; STATE GOVERNMENT; TELEVISION; WATER POLLUTION CONTROL; FREEBORO; NAMASKEAG RIVER; TELEVISION SIMULATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 51P.

ISSUE: RIEAUG72

ABSTRACT: THE MAINE PUBLIC BROADCASTING NETWORK (MPBN) PRESENTED A "TELEVISION SIMULATION" TO MAKE THE CITIZENS OF MAIN MORE AWARE OF 1) ENVIRONMENTAL CHALLENGES, 2) THE PROCESS OF RECONCILING PROBLEMS, AND 3) THE IMPORTANCE OF THE INDIVIDUAL IN THE PROCESS. IN THE SIMULATION A FICTITIOUS TOWN, FREEBORO, WAS FACED WITH A DECISION REGARDING A NEW CANNING FACTORY. THE FACTORY COULD BE SEEN AS A SOURCE OF JOBS AND ECONOMIC STABILITY FOR THE AREA AND AS A SOURCE OF POLLUTION OF THE NEARBY NAMASKEAG RIVER. IN A SERIES OF FOUR PROGRAMS, A "NEWS SPECIAL", A TOWN MEETING, A STOCKHOLDER'S MEETING, AND AN ENVIRONMENTAL COMMISSION HEARING, THE VIEWERS WERE EXPOSED TO THE PROS AND CONS OF VARIOUS ISSUES. AT THE CONCLUSION OF EACH PROGRAM THEY WERE ASKED TO VOTE--BY PHONE OR MAIL--ON A KEY DECISION. THE RESULTS OF THE VOTE WERE INCORPORATED INTO SUCCEEDING PROGRAMS. IT WAS HOPED THAT VIEWERS WOULD THUS BECOME INVOLVED IN THE PROGRAMS. A FIFTH PROGRAM TIED THE POINTS MADE IN THE SIMULATION TO REAL LIFE ENVIRONMENTAL ISSUES IN THE STATE OF MAINE. THE PROGRAMS WERE USED BY HIGH SCHOOL VIEWERS AND HOME AUDIENCES; AN EVALUATION SHOWED THAT THE STUDENTS WERE OVERWHELMINGLY IN FAVOR OF THE SERIES AS A LEARNING EXPERIENCE. THE HISTORY OF THE PROJECT IS DETAILED IN THIS REPORT ALONG WITH A DISCUSSION OF THE PROCESS OF PRODUCING AND EVALUATING SUCH A SERIES. (JY)

REPORT NUMBER: HEA-1

INSTITUTION NAME: MAINE PUBLIC BROADCASTING NETWORK, ORONO.

IRIS ACCESSION NUMBER: EW003411

ERIC ACCESSION NUMBER: ED061342

PUBLICATION DATE: DEC 58

TITLE: WATER FILTERER (WATERWORKS) 7-54.621--TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

INSTITUTION CODE: BBB02819

DESCRIPTOR: *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; *QUALITY CONTROL; TEST RELIABILITY; TEST VALIDITY; WATER RESOURCES; GATB; *GENERAL APTITUDE TEST BATTERY; WATER FILTERER; *FILTRATION; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEJUL72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS ALSO INCLUDED. (AG)

REPORT NUMBER: TR-S-139

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

IRIS ACCESSION NUMBER: EW003412

ERIC ACCESSION NUMBER: ED040064

PUBLICATION DATE: 70

TITLE: PESTICIDES, A SCIENTISTS' INSTITUTE FOR PUBLI INFORMATION WORKBOOK.

PERSONAL AUTHOR: DAHLSTEN, DONALD L.; AND OTHERS

INSTITUTION CODE: BBB03688

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *ECOLOGY; ECONOMICS; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *PESTICIDES; *POLLUTION; PUBLIC HEALTH; REFERENCE MATERIALS; *INSECTICIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEOCT70

ABSTRACT: THIS COLLECTION OF ARTICLES EMPHASIZES THE NEE FOR CARE IN THE USE OF CHEMICAL PESTICIDES. ECONOMIC AN ECOLOGICAL IMPLICATIONS OF PEST CONTROL ARE DISCUSSED, AN DATA ARE GIVEN ON THE EFFECTIVENESS AND SIDE EFFECTS O CHEMICAL INSECTICIDES. ALTERNATIVE METHODS OF CONTROL AR PROPOSED. THE PART THAT CAN BE PLAYED BY THE PUBLIC I DECISION MAKING IS DISCUSSED. A SHORT ANNOTATED BIBLIOGRAPH IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION NEW YORK, N. Y.

IRIS ACCESSION NUMBER: EW003413

ERIC ACCESSION NUMBER: ED061056

PUBLICATION DATE: 72

TITLE: WATER POLLUTION (CAUSES, MECHANISMS, SOLUTION).

PERSONAL AUTHOR: STRANDBERG, CARL

DESCRIPTOR: *ECOLOGY; *ENVIRONMENTAL INFLUENCES; ESSAYS NATURAL RESOURCES; SCIENTIFIC PRINCIPLES; *SOCIAL FACTORS; *WATER POLLUTION CONTROL; WATER RESOURCES; *LAWS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 150P.

ISSUE: RIEJUL72

ABSTRACT: WRITTEN FOR THE GENERAL PUBLIC, THIS BOO ILLUSTRATES THE CAUSES, STATUS, PROBLEM AREAS, AN PREDICTION AND CONTROL OF WATER POLLUTION. WATER POLLUTION IS ONE OF THE MOST PRESSING ISSUES OF OUR TIME AND THE AUTHOR COMMUNICATES THE COMPLEXITIES OF THIS PROBLEM TO THE READER IN COMMON LANGUAGE. THE PURPOSE OF THE INTRODUCTION CHAPTER IS TO SHOW WHAT WATER POLLUTION IS AND HOW I AFFECTS THE LIVES OF ALL OF US; HOW PROPER CONSERVATION OF A VITAL NATURAL RESOURCE - WATER - IS NECESSARY FOR A BETTER, SAFER, AND CLEANER WORLD. DELINEATED ALSO ARE THE HISTORICAL ASPECTS AND LEGAL BASES FOR FEDERAL WATER POLLUTION CONTROL TOGETHER WITH THE CLASSIFICATION OF WATER POLLUTANTS. FOLLOWING THIS, THE IMPACT OF WATER POLLUTION ON RECREATION AND AESTHETICS, PUBLIC WATER SUPPLIES, FISH AND WILDLIFE, AGRICULTURE, AND INDUSTRY IS CONSIDERED. IT IS CONCLUDED THAT WATER WHICH SATISFIES QUALITY REQUIREMENTS IN THIS ORDER OF SUCCESSIVE PRIORITIES WILL MEET MOST DEMANDS WHICH MAY BE PLACED ON IT. STATISTICAL TABLES, FIGURES, AND TECHNICAL INFORMATION MAKE THE BOOK USEFUL ALSO AS A RESOURCE FOR REFERENCE WORK. (BL)

AVAILABILITY: MILIEU INFORMATION SERVICE, TRITON BUILDING 33 EAST SAN FERNANDO STREET, SAN JOSE, CALIFORNIA 9511. ($6.50)

IRIS ACCESSION NUMBER: EW003414

ERIC ACCESSION NUMBER: ED059582

PUBLICATION DATE: 69

TITLE: EDUCATIONAL SYSTEMS FOR OPERATORS OF WATER POLLUTION CONTROL FACILITIES.

PERSONAL AUTHOR: AUSTIN, JOHN H., ED.; KESLER, JOHN, ED.

INSTITUTION CODE: UZ015525

SPONSORING AGENCY CODE: BBB03718

DESCRIPTOR: COMPUTER ASSISTED INSTRUCTION; *CONFERENCE REPORTS; *EDUCATIONAL TECHNOLOGY; *ENVIRONMENTAL TECHNICIANS; INDUSTRIAL PERSONNEL; *JOB TRAINING; PROGRAMED INSTRUCTION; SANITATION IMPROVEMENT; SYSTEMS APPROACH; TASK ANALYSIS; VIDEO TAPE RECORDINGS; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$19.80 PLUS POSTAGE

DESCRIPTIVE NOTE: 412P.; PROCEEDINGS OF THE EDUCATIONAL SYSTEMS FOR OPERATORS OF WATER POLLUTION CONTROL FACILITIE CONFERENCE (ATLANTA, GEORGIA, NOVEMBER 3-5, 1969)

ISSUE: RIEJUN72

ABSTRACT: SEVERAL OF THE ARTICLES FROM THIS CONFERENCE CONCERN CURRENT ACTIVITIES OF FEDERAL, STATE, AND MUNICIPAL GOVERNMENTS, OF UNIVERSITIES AND COMMUNITY COLLEGES, AND OF INDUSTRY IN WASTEWATER TREATMENT PLANT OPERATOR TRAINING. THE REST OF THE ARTICLES DEAL WITH INSTRUCTIONAL TECHNOLOGY, EXPLAINING DIFFERENT FACETS OF IT AND SHOWING HOW IT MAY BE APPLIED TO THE PROBLEM. THESE ARTICLES DEAL WITH SUCH SUBJECTS AS: FUNCTION OF MEDIA AND INSTRUCTION, A SYSTEMATIC APPROACH TO INSTRUCTION, TASK ANALYSIS REQUIREMENTS FO UPGRADING OCCUPATIONAL INSTRUCTION, SUCCESSFUL INSTRUCTOR

TRAINING IN INDUSTRY, AUDIOVISUAL SYSTEMS FROM A PROGRAMING VIEWPOINT, PROGRAMED MANUALS, EDUCATIONAL TECHNOLOGY, CASE HISTORY OF VIDEO TAPE PRODUCTION, AND COMPUTER BASED EDUCATION. THERE ARE TWO SUMMARIES AND EVALUATIONS, ONE FROM THE POINT OF VIEW OF AN ENGINEER AND THE OTHER FROM THAT OF AN EDUCATIONAL TECHNOLOGIST. (JK)

INSTITUTION NAME: CLEMSON UNIV., S.C.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

IRIS ACCESSION NUMBER: EW003415

ERIC ACCESSION NUMBER: ED058709

PUBLICATION DATE: SEP 71

TITLE: MASS MEDIA AND THE ENVIRONMENT: VOLUME ONE, SAN FRANCISCO AND MONTEREY BAY WATER RESOURCES.

PERSONAL AUTHOR: SACHS, DAVID PETER; RUBIN, DAVID MARK

INSTITUTION CODE: BBB03970; CIQ82575

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: *ECOLOGY; *ENVIRONMENTAL CRITERIA; ENVIRONMENTAL INFLUENCES; *ENVIRONMENTAL RESEARCH; *NATURAL RESOURCES; NEWS MEDIA; POLLUTION; RESOURCE ALLOCATIONS; SANITATION; SOCIAL RESPONSIBILITY; *WATER POLLUTION CONTROL; MONTEREY BAY; *SAN FRANCISCO BAY AREA; *MANAGEMENT; NUCLEAR POWER PLANTS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$12.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 275P.

ISSUE: RIEMAY72

ABSTRACT: IN AN INTERDISCIPLINARY PROJECT GRADUATE STUDENTS FROM SEVERAL FIELDS--INCLUDING MEDICINE AND COMMUNICATION--CONDUCTED AN ASSESSMENT AND CRITIQUE OF MEDIA PERFORMANCE IN THE ARE OF ENVIRONMENTAL PROBLEMS. THE PROJECT HAD NO DIRECT FACULTY SUPERVISION--THE FIRST SUCH STUDENT PROJECT FUNDED BY THE NATIONAL SCIENCE FOUNDATION. THIS VOLUME PRESENTS AN EXTENSIVE BACKGROUND ON THE VARIOUS ENVIRONMENTAL PROBLEMS IN THE SAN FRANCISCO BAY AREA. SPECIFIC ATTENTION IS PAID TO THE POLITICAL HISTORY OF THE CALIFORNIA STATE WATER PROJECT, THE WATER RESOURCES IN THE BAY AREA, THE PROBLEM OF OPTIMAL RESOURCE ALLOCATION, AND THE UNIQUE QUALITY OF THE SAN FRANCISCO BAY. COMPREHENSIVE WASTE WATER MANAGEMENT PLANS IN THE SAN FRANCISCO BAY AREA ARE SURVEYED AND AN EXAMINATION IS MADE OF THE ENVIRONMENTAL PROBLEMS OF THE MONTEREY BAY AREA. THE QUESTION OF ACCESS TO INFORMATION ON NUCLEAR POWER PLANT SITING IS ALSO DISCUSSED AT SOME LENGTH. FOR A STUDY OF THE ROLE OF THE MEDIA IN THESE ENVIRONMENTAL PROBLEMS SEE VOLUME TWO (EM009437). (JY)

INSTITUTION NAME: STANFORD UNIV., CALIF. DEPT. OF COMMUNICATION.; STANFORD UNIV., CALIF. SCHOOL OF MEDICINE.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003416

ERIC ACCESSION NUMBER: ED058085

PUBLICATION DATE: AUG 70

TITLE: REPORT OF THE COUNCIL ON ENVIRONMENTAL QUALITY. HEARING BEFORE THE SUBCOMMITTEE ON AIR AND WATER POLLUTION OF THE COMMITTEE ON PUBLIC WORKS, 91ST CONGRESS, SECOND SESSION, AUGUST 11, 1970.

INSTITUTION CODE: BBB05805

DESCRIPTOR: *AIR POLLUTION CONTROL; COMMITTEES; *ENVIRONMENTAL INFLUENCES; *FEDERAL LEGISLATION; FEDERAL PROGRAMS; QUALITY CONTROL; *QUESTION ANSWER INTERVIEWS; REPORTS; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 30P.

ISSUE: RIEAPR72

ABSTRACT: PRESENTED IN THIS BULLETIN IS THE TEXT OF THE HEARING BEFORE THE SUBCOMMITTEE ON AIR AND WATER POLLUTION OF THE COMMITTEE ON PUBLIC WORKS, UNITED STATES SENATE CONCERNING THE "FIRST ANNUAL ENVIRONMENTAL QUALITY REPORT" OF THE COUNCIL ON ENVIRONMENTAL QUALITY. THE HEARING WAS HELD AUGUST 11, 1970 FOR THE PURPOSE OF PROVIDING OPEN DISCUSSION OF THE FINDINGS AND RECOMMENDATIONS OF THE PRESIDENT'S COUNCIL ON ENVIRONMENTAL QUALITY. THESE RECOMMENDATIONS GENERALLY EMPHASIZE THE URGENCY OF IMMEDIATE ACTION TO REVERSE PRESENT TRENDS TOWARD ENVIRONMENTAL DESTRUCTION. RUSSELL E. TRAIN, CHAIRMAN OF THE COUNCIL ON ENVIRONMENTAL QUALITY, RESPONDED TO THE SUBCOMMITTEE QUESTIONING LED BY CHAIRMAN SENATOR EDMUND S. MUSKIE, WHICH DEALT PRIMARILY WITH AIR, WATER, AND SOLID WASTE POLLUTION CONCERNS. (BL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($0.20)

INSTITUTION NAME: CONGRESS OF THE U.S., WASHINGTON, D.C. SENATE COMMITTEE ON PUBLIC WORKS.

IRIS ACCESSION NUMBER: EW003417

ERIC ACCESSION NUMBER: ED058080

PUBLICATION DATE: APR 71

TITLE: POLLUTION: A SELECTED BIBLIOGRAPHY OF U.S. GOVERNMENT PUBLICATIONS ON AIR, WATER, AND LAND POLLUTION 1965-1970.

PERSONAL AUTHOR: KIRALDI, LOUIS, COMP.; BURK, JANET L., COMP.

INSTITUTION CODE: BBB05754

DESCRIPTOR: AIR POLLUTION CONTROL; *BIBLIOGRAPHIES; ENVIRONMENTAL INFLUENCES; *FEDERAL GOVERNMENT; *GOVERNMENT PUBLICATIONS; INDEXES (LOCATERS); LAND USE; *POLLUTION; *REFERENCE MATERIALS; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$4.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 80P.

ISSUE: RIEAPR72

ABSTRACT: MATERIALS ON ENVIRONMENTAL POLLUTION PUBLISHED BY THE VARIOUS OFFICES OF THE FEDERAL GOVERNMENT ARE PRESENTED IN THIS SELECT BIBLIOGRAPHY. LIMITED IN SCOPE TO PUBLICATIONS ON AIR, WATER, AND LAND POLLUTION, THE DOCUMENT IS DESIGNED TO SERVE TEACHERS AND RESEARCHERS WORKING IN THE FIELD OF ENVIRONMENTAL PROBLEMS WHO WISH REFERENCE TO PUBLIC DOCUMENTS. EACH SECTION IS DIVIDED INTO TWO PARTS: (1) REFERENCE BOOKS INCLUDING ABSTRACTS, BIBLIOGRAPHIES, DIRECTORIES, GUIDES AND HANDBOOKS, AND LAWS AND REGULATIONS; AND (2) GENERAL PUBLICATIONS FROM THE DEPARTMENTS, OFFICE OF THE PRESIDENT, INDEPENDENT COMMISSIONS, AND CONGRESS. THE ENTRIES, MANY WITH BRIEF ABSTRACTS, LIST TITLE, SOURCE OR AGENCY, DATE OF PUBLICATION, NUMBER OF PAGES, AND SUPERINTENDENT OF DOCUMENTS CALL NUMBER. (BL)

AVAILABILITY: WESTERN MICHIGAN UNIVERSITY, INSTITUTE OF PUBLIC AFFAIRS, KALAMAZOO, MICHIGAN 49001 ($3.00)

INSTITUTION NAME: WESTERN MICHIGAN UNIV., KALAMAZOO. INST. OF PUBLIC AFFAIRS.

IRIS ACCESSION NUMBER: EW003418

ERIC ACCESSION NUMBER: ED058070

PUBLICATION DATE: 21 DEC 71

TITLE: WATER RESOURCES COUNCIL PROPOSED PRINCIPLES AND STANDARDS FOR PLANNING WATER AND RELATED LAND RESOURCES. NOTICE OF PUBLIC REVIEW AND HEARING.

INSTITUTION CODE: BBB05753

DESCRIPTOR: *ADMINISTRATIVE PRINCIPLES; *COOPERATIVE PLANNING; ENVIRONMENTAL INFLUENCES; *LAND USE; MASTER PLANS; POLICY FORMATION; PROGRAM DEVELOPMENT; *STANDARDS; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 53P.; FEDERAL REGISTER, V36 N245 PART II, DEC 21, 1971

ISSUE: RIEAPR72

ABSTRACT: PRESENTED IN THIS NOTICE OF A PUBLIC REVIEW AND HEARING ARE THE PROPOSED PRINCIPLES AND STANDARDS FOR PLANNING WATER AND RELATED LAND RESOURCES OF THE UNITED STATES. DEVELOPED BY THE WATER RESOURCES COUNCIL PURSUANT TO THE WATER RESOURCES PLANNING ACT OF 1965 (PUBLIC LAW 89-80), THE PURPOSE IS TO ACHIEVE OBJECTIVES, DETERMINED COOPERATIVELY, THROUGH THE COORDINATED ACTIONS OF THE FEDERAL, STATE, AND LOCAL GOVERNMENTS, PRIVATE ENTERPRISE AND ORGANIZATIONS, AND INDIVIDUALS. PLANS FOR THE USE OF THE NATION'S WATER AND LAND RESOURCES WOULD BE DIRECTED TOWARD IMPROVEMENT OF THE QUALITY OF LIFE THROUGH CONTRIBUTIONS TO THE OBJECTIVES OF NATIONAL ECONOMIC DEVELOPMENT, ENVIRONMENTAL QUALITY, AND REGIONAL DEVELOPMENT. BENEFICIAL AND ADVERSE EFFECTS OF ALTERNATIVE PLANS ON EACH OF THESE OBJECTIVES, AS WELL AS EFFECTS ON SOCIAL FACTORS, ARE ALSO CONSIDERED. IT IS CONCLUDED THAT PROMULGATION OF THE PROPOSED PRINCIPLES AND STANDARDS WOULD FURTHER THE PURPOSES OF THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969. (BL)

INSTITUTION NAME: NATIONAL ARCHIVES AND RECORDS SERVICES (GSA), WASHINGTON, D.C. OFFICE OF THE FEDERAL REGISTER.

IRIS ACCESSION NUMBER: EW003419

ERIC ACCESSION NUMBER: ED058056

PUBLICATION DATE: NOV 68

TITLE: RESEARCH ON TEXAS WATER AND RECREATION RESOURCES.

INSTITUTION CODE: BBB00415; XPT86295

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *RECREATION; *RESEARCH NEEDS; SPEECHES; *WATER RESOURCES; TEXAS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 50P.

ISSUE: RIEAPR72

ABSTRACT: THE NEED FOR RESEARCH PERTAINING TO THE BEST USE OF WATER AND RECREATION RESOURCES IN TEXAS IS EMPHASIZED IN THESE FOUR PAPERS PRESENTED AT THE 1968 EXPERIMENT STATION CONFERENCE, COLLEGE STATION, TEXAS. "PARAMETERS OF WATER RESOURCES IN TEXAS" IDENTIFIES AND ELABORATES UPON THE IMPORTANT ELEMENTS PRESENTLY CONSTITUTING THE WATER RESOURCES RESEARCH NEEDS IN TEXAS--WATER SUPPLY (QUANTITATIVE AND QUALITATIVE ASPECTS), WATER DEMAND, AND MARKETING WATER. "A GENERAL VIEW OF INSTITUTIONAL CONSTRAINTS AS FACTORS IN THE DEVELOPMENT OF RECREATION RESOURCES IN TEXAS" CONSIDERS GOVERNMENT CONTROL, RESOURCE OWNERSHIP, ECONOMICS, ORGANIZATIONS, FINANCIAL INSTITUTIONS, EDUCATION, AND RELIGION. "INSTITUTIONAL CONSTRAINTS: A FACTOR IN THE DEVELOPMENT OF RECREATION RESOURCES IN TEXAS" IS AN INDEPTH STUDY OF THE SECOND PAPER, USING A SPECIFIC EXAMPLE, LIVINGSTON RESERVOIR, TO ILLUSTRATE THE INFLUENTIAL ROLE OF HISTORY, PROVINCIALISM, ISOLATIONISM, RURAL DOMINANCE, AND MISCONCEPTIONS AS TO THE MEANING AND SIGNIFICANCE OF RECREATION IN THE FORMATION OF POLICY AND ITS IMPLEMENTATION. NEW INSTITUTIONAL DIRECTIVES IN THE FORM OF ENABLING LEGISLATION AND CONSTITUTIONAL REVISION ARE DEEMED NECESSARY. "ESTIMATING RECREATION DEMAND - A

REALITY?" INVESTIGATES TWO OPPOSING FORCES--EXPANSION OF OUTDOOR RECREATION FACILITIES IN LINE WITH POPULATION GROWTH AND URBAN CONCENTRATION VS. THE SPREAD OF PRIVATE LAND OWNERSHIP AND ITS RESTRICTED USE. (BL)

INSTITUTION NAME: TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF AGRICULTURAL ECONOMICS AND SOCIOLOGY.; TEXAS A AND M UNIV., COLLEGE STATION. TEXAS AGRICULTURAL EXPERIMENT STATION.

IRIS ACCESSION NUMBER: EW003420

ERIC ACCESSION NUMBER: ED056917

PUBLICATION DATE: MAR 71

TITLE: CONCERNS IN WATER SUPPLY AND POLLUTION CONTROL: LEGAL, SOCIAL, AND ECONOMIC.

PERSONAL AUTHOR: BURKE, D. BARLOW, JR.; AND OTHERS

INSTITUTION CODE: BBBJ1924

DESCRIPTOR: BULLETINS; *ECONOMIC FACTORS; *ENVIRONMENTAL EDUCATION; LAWS; *LEGAL PROBLEMS; POLLUTION; *SOCIAL FACTORS; *WATER POLLUTION CONTROL; WATER RESOURCES; RHODE ISLAND

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEMAR72

ABSTRACT: THIS BULLETIN CONTAINS THREE ARTICLES WHICH FOCUS ON GROUND WATER'S POTENTIAL AS A DEPENDABLE SUPPLY SOURCE AND SOME OF THE PROBLEMS IMPEDING THE DEVELOPMENT OF THAT POTENTIAL. THE AUTHORS' CONCERNS ARE DISCUSSED FROM THE VANTAGE POINT OF THEIR AREAS OF SPECIALIZATION: LAW, SOCIOLOGY, AND ECONOMICS. THE FIRST AUTHOR STATES THAT WATER LAW ABOUNDS WITH UNANSWERED QUESTIONS AND ADMINISTRATIVE EFFORTS TO ISOLATE WATER'S USE FOR PUBLIC CONSUMPTION FROM ITS MANY OTHER USES ARE EQUALLY ARBITRARY. IN THE SOCIOLOGICAL AREA, THERE SEEMS TO BE A FAILURE ON THE PART OF ALL CITIZENS TO UNDERSTAND WATER SUPPLY AND POLLUTION ISSUES. THE ECONOMIST ESTIMATES THAT AVAILABLE GROUND WATER RESOURCES MIGHT BE ABLE TO SATISFY PROJECTED WATER SUPPLY NEEDS IN RHODE ISLAND AT COSTS SIGNIFICANTLY LOWER THAN THOSE ASSOCIATED WITH SURFACE RESERVOIRS. (AUTHOR/CP)

REPORT NUMBER? BULL-1

INSTITUTION NAME: RHODE ISLAND UNIV., KINGSTON.

IRIS ACCESSION NUMBER: EW003421

ERIC ACCESSION NUMBER: ED056914

PUBLICATION DATE: 71

TITLE: FIELD STUDY MANUAL TO FRESHWATER AND ESTUARINE HABITATS.

INSTITUTION CODE: IEE29025

DESCRIPTOR: BIOLOGY; DATA COLLECTION; DATA SHEETS; *ECOLOGY; *FIELD STUDIES; *INSTRUCTIONAL MATERIALS; LABORATORY MANUALS; MANUALS; *SECONDARY SCHOOL SCIENCE; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 29P.

ISSUE: RIEMAR72

ABSTRACT: THIS FIELD STUDIES MANUAL, DEVELOPED BY BIOLOGY STUDENTS IN THE 1971 GEORGIA GOVERNOR'S HONORS PROGRAM, WAS DESIGNED FOR COLLECTION OF DATA PERTINENT TO FRESHWATER AND ESTUARINE HABITATS. IN ADDITION TO THE VARIOUS METHODS OF SAMPLING THE ECOSYSTEM AND FOR QUANTIFICATION OF THE DATA, INSTRUCTIONS FOR DIVIDING THE FIELD STUDY INTO THREE LOGICAL PHASES: THE PRE-TRIP, ON-SITE, AND POST-TRIP AND INCLUDED. THREE APPENDICES ARE ALSO INCLUDED: (1) CENTIGRADE-FAHRENHEIT SCALES COMPARISON, (2) GUIDELINES FOR EVALUATING A RESEARCH ARTICLE, AND (3) FINAGLES LAWS. (CP)

INSTITUTION NAME: GEORGIA STATE DEPT. OF EDUCATION, ATLANTA.

IRIS ACCESSION NUMBER: EW003422

ERIC ACCESSION NUMBER: ED153829

PUBLICATION DATE: JAN 76

TITLE: IOWA COMMERCIAL PESTICIDE APPLICATOR MANUAL, CATEGORY 5: AQUATIC PEST CONTROL. CS-17.

PERSONAL AUTHOR: JENNINGS, VIVAN M.; RYAN, STEPHEN O.

INSTITUTION CODE: BBB03173

DESCRIPTOR: CERTIFICATION; ENVIRONMENT; HERBICIDES; *PESTICIDES; SAFETY; *WATER RESOURCES; *WEEDS; IOWA; *PESTS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 16P.; FOR RELATED DOCUMENTS, SEE SE 023 740, SE 024 060-061 AND SE 024 120-133

ISSUE: RIESEP78

ABSTRACT: THIS MANUAL PROVIDES INFORMATION NEEDED TO MEET SPECIFIC STANDARDS FOR CERTIFICATION AS A PESTICIDE APPLICATOR. THE TEXT IS CONCERNED WITH THE CONTROL OF AQUATIC WEEDS IN A VARIETY OF WATER USE SITUATIONS, I.E. STATIC WATER, LIMITED-FLOW IMPOUNDMENTS AND MOVING WATER. ALSO DISCUSSED ARE THE PRINCIPLES OF LIMITED AREA APPLICATION SUCH AS SURFACE OR BOTTOM ACRE-FOOT TREATMENTS. THE LAST SECTION DEALS WITH THE SPECIAL PROBLEMS ASSOCIATED WITH THE APPLICATION OF AQUATIC HERBICIDES. (CS)

INSTITUTION NAME: IOWA STATE UNIV. OF SCIENCE AN TECHNOLOGY, AMES. COOPERATIVE EXTENSION SERVICE.

IRIS ACCESSION NUMBER: EW003423

ERIC ACCESSION NUMBER: ED055881

PUBLICATION DATE: 70

TITLE: DROUGHT AND WATER SUPPLY. IMPLICATIONS OF TH MASSACHUSETTS EXPERIENCE FOR MUNICIPAL PLANNING.

PERSONAL AUTHOR: RUSSELL, CLIFFORD S.; AND OTHERS

INSTITUTION CODE: BBB00408

DESCRIPTOR: CONSERVATION EDUCATION; CONTROLLED ENVIRONMENT *ENVIRONMENT; *NATURAL RESOURCES; PLANNING; *WATE RESOURCES; *MASSACHUSETTS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 232P.

ISSUE: RIEFEB72

ABSTRACT: THIS BOOK USES THE 1962-66 MASSACHUSETTS DROUGH DATA AS A BASE OF INFORMATION TO BUILD A PLANNING MODEL O WATER RESOURCES THAT IS OF INTEREST TO STUDENTS AN PROFESSIONALS INVOLVED WITH WATER MANAGEMENT. USING DEMAND-SUPPLY RATIO TO MEASURE THE RELATIVE INADEQUACY OF GIVEN WATER SYSTEM, THE AUTHORS THEN PROJECT DEMAND INTO TH DROUGHT PERIOD AND RELATE OBSERVED SHORTAGES TO INADEQUAC AND TO THE CLIMATOLOGICAL SEVERITY OF THE DROUGHT INFORMATION ON SYSTEM CAPACITY, WATER SHORTAGE, AND WATE LOSS HAS ALSO BEEN EVALUATED, AND A MODEL HAS BEE FORMULATED FOR MUNICIPAL SYSTEM EXPANSION. THIS PLANNIN MODEL ALLOWS FOR OPTIMAL BALANCING OF THE COST OF ADDITIONA STORAGE AGAINST EXPECTED LOSSES FROM FUTURE DROUGHTS AND HA ENABLED THE AUTHORS TO EXAMINE THE PROPER TIMING AND SIZE O ADDITIONS TO THE STORAGE CAPACITY OF MUNICIPAL WATE SYSTEMS. APPENDICES INCLUDE: A PRELIMINARY TEST OF TH DEMAND PROJECTIONS, NOTES ON DATA USED IN THE VARIOUS TESTS DROUGHT ADJUSTMENTS BY THE METROPOLITAN DISTRICT COMMISSION MEASUREMENT OF BUSINESS LOSSES FROM SHUTDOWN, LOSSES FRO RESTRICTIONS ON LAWN-SPRINKLING, CORRECTION FOR INVESTMEN RETURNS, PRODUCTION LOSSES AND NET EARNING REMITTALS UNDE VARIOUS ACCOUNTING STANCES, AND METHODS OF SOLUTION. (BB)

AVAILABILITY: THE JOHNS HOPKINS PRESS, BALTIMORE, MARYLAN 21218 ($8.00)

INSTITUTION NAME: RESOURCES FOR THE FUTURE, INC. WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003424

ERIC ACCESSION NUMBER: ED055814

PUBLICATION DATE: MAY 67

TITLE: NUCLEAR ENERGY FOR WATER DESALTING, A BIBLIOGRAPHY.

PERSONAL AUTHOR: KUHNS, HELEN F., COMP.; AND OTHERS

INSTITUTION CODE: XIE04840

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *ENERGY; LITERATURE REVIEWS; NATURAL RESOURCES; *NUCLEAR PHYSICS; TECHNOLOGICAL ADVANCEMENT; *WATER RESOURCES; *WATER DESALTING; *DESALINATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 34P.

ISSUE: RIEFEB72

ABSTRACT: THIS BIBLIOGRAPHY INCLUDES 215 ABSTRACTS OF PUBLICATIONS ON THE USE OF NUCLEAR ENERGY IN THE PRODUCTION OF POTABLE WATER FROM SALINE OR BRACKISH WATERS. THE USES OF NUCLEAR REACTORS, RADIOISOTOPIC HEAT SOURCES, AND NUCLEAR EXPLOSIVES ARE COVERED IN RELATION TO THE VARIOUS DESALINATION METHODS AVAILABLE. LITERATURE THROUGH APRIL 1967 HAS BEEN SEARCHED FOR THE PRESENT EDITION. REFERENCES TO THE TECHNICAL REPORT LITERATURE ARE ARRANGED BY REPORT NUMBER UNDER THE ISSUING ORGANIZATIONS, AND THE JOURNAL REFERENCES ARE ARRANGED ALPHABETICALLY BY JOURNAL TITLE. AUTHOR AND REPORT NUMBER-AVAILABILITY INDEXES ARE INCLUDED. (AUTHOR/PR)

AVAILABILITY: CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION, NATIONAL BUREAU OF STANDARDS, DEPARTMENT OF COMMERCE, SPRINGFIELD, VIRGINIA 22151

INSTITUTION NAME: ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN. DIV. OF TECHNICAL INFORMATION.

IRIS ACCESSION NUMBER: EW003425

ERIC ACCESSION NUMBER: ED050944

PUBLICATION DATE: 70

TITLE: AMERICA IS IN TROUBLE, NATIONAL WILDLIFE FEDERATION'S 1970 NATIONAL EQ INDEX.

INSTITUTION CODE: BBB04048

DESCRIPTOR: ANNUAL REPORTS; *CONSERVATION EDUCATION; *DEPLETED RESOURCES; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; POLLUTION; POPULATION TRENDS; WATER RESOURCES; WILDLIFE MANAGEMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 16P.; REPRINT FROM NATIONAL WILDLIFE MAGAZINE, OCT-NOV 1970

ISSUE: RIESEP71

ABSTRACT: THIS IS THE SECOND ANNUAL EDITION OF THE EC

ENVIRONMENTAL QUALITY) INDEX AND IS REPRINTED FROM THE CTOBER-NOVEMBER, 1970 NATIONAL WILDLIFE MAGAZINE. THE INDEX S AN ATTEMPT "TO ASSIGN SOME VALUES AND FORM SOME JDGEMENTS ON THOSE VITAL FACTORS THAT MAKE UP THE QUALITY F OUR LIFE--AND TO DECIDE WHETHER WE WERE WINNING OR LOSING HE POLLUTION BATTLE" SINCE THE 1969 EQ INDEX WAS PUBLISHED. HE 1970 EQ TREND LEVEL INDICATES THAT THE OVERALL NVIRONMENTAL QUALITY IS DETERIORATING AT AN ACCELERATING ATE. RATINGS ASSIGNED LOSSES TO EACH OF THESE AREAS OF NVIRONMENTAL QUALITY: AIR, WATER, WILDLIFE, SOIL, MINERALS, ND LIVING SPACE. THE ONLY AREA TO BE RATED WITH A SLIGHT AIN WAS "TIMBER." THE DANGERS OF OVERPOPULATION ARE ISCUSSED, BUT THIS AREA IS NOT RATED. PROBLEMS ARE IGHLIGHTED IN EACH OF THE ENVIRONMENTAL AREAS AND NUMEROUS OLORED CHARTS, DIAGRAMS AND PHOTOGRAPHS ARE UTILIZED. ECOMMENDATIONS FOR IMPROVEMENTS IN EACH OF THE NVIRONMENTAL AREAS ARE INCLUDED, AS IS A LIST OF THINGS HAT AN INDIVIDUAL CAN DO TO HELP REDUCE ENVIRONMENTAL ROBLEMS. (PR)

VAILABILITY: NATIONAL WILDLIFE FEDERATION, 1412 16TH TREET, N.W., WASHINGTON, D.C. 20036

NSTITUTION NAME: NATIONAL WILDLIFE FEDERATION, WASHINGTON, . C.

RIS ACCESSION NUMBER: EW003426

RIC ACCESSION NUMBER: ED050936

UBLICATION DATE: 70

ITLE: GRADUATE STUDIES IN WATER RESOURCES.

NSTITUTION CODE: BBB05000

ESCRIPTOR: CATALOGS; *DIRECTORIES; EDUCATIONAL PROGRAMS; GRADUATE STUDY; HIGHER EDUCATION; *PROGRAM DESCRIPTIONS; EFERENCE MATERIALS; UNIVERSITIES; *WATER RESOURCES

DRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

ESCRIPTIVE NOTE: 37P.

SSUE: RIESEP71

BSTRACT: THIS BROCHURE IS THE THIRD EDITION OF A UBLICATION DESIGNED TO GIVE BRIEF INFORMATION ABOUT DUCATIONAL OPPORTUNITIES IN THE UNITED STATES FOR GRADUATE TUDIES IN WATER RESOURCES. THE 65 UNIVERSITIES LISTED FROM 2 STATES ARE ALL MEMBERS OF THE UNIVERSITIES COUNCIL ON ATER RESOURCES. FOR EACH UNIVERSITY, A BRIEF DESCRIPTION OF HE PROGRAM IS PROVIDED, GIVING SUBJECT EMPHASIS, DEGREES FFERED, RELATED FACILITIES, FINANCIAL ASSISTANCE AND OSITIONS WHERE AVAILABLE, AND THE PERSON AND PLACE TO ONTACT FOR ADDITIONAL INFORMATION. (BL)

NSTITUTION NAME: UNIVERSITIES COUNCIL ON WATER RESOURCES.

IRIS ACCESSION NUMBER: EW003427

ERIC ACCESSION NUMBER: ED049925

PUBLICATION DATE: JAN 7.

TITLE: AN EVALUATION OF SANITARY ENGINEERING EDUCATION.

PERSONAL AUTHOR: KAUFMAN, W. J.; MIDDLEBROOKS, E. J.

INSTITUTION CODE: BBB04927

DESCRIPTOR: *COLLEGE PROGRAMS; COLLEGE SCIENCE; *EDUCATIONAL TRENDS; ENVIRONMENT; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; *GRADUATE STUDY; PROGRAM DESCRIPTIONS; SANITATION IMPROVEMENT; WATER POLLUTION CONTROL; *ENGINEERING; *SANITATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 52P.

ISSUE: RIEAUG71

ABSTRACT: THIS REPORT IS BASED ON THE 1966 AND 1969 REGISTERS OF GRADUATE PROGRAMS IN THE FIELD OF SANITARY ENGINEERING. DATA FOR BOTH REGISTERS WERE COLLECTED BY QUESTIONNAIRES. THE FIRST IN 1965 INCLUDED 56 COLLEGES AND HE SECOND IN 1969 INCLUDED 45 COLLEGES OFFERING GRADUATE PROGRAMS. THE FOLLOWING CHAPTERS ARE INCLUDED: OBJECTIVE OF THE REGISTER; PROGRAM TITLES AND OBJECTIVES; FACULTY, ADMISSION REQUIREMENTS; DEGREE TITLES, TYPICAL M.S. PROGRAMS, DEGREES AWARDED AND PRESENT STUDENT ENROLLMENT; INITIAL EMPLOYMENT OF 1966-67 AND 1967-68 DEGREE RECIPIENTS; INANCIAL SUPPORT; SUMMARY AND CONCLUSIONS. THE THREE PRINCIPAL PROGRAM TITLES USED ARE SANITARY ENGINEERING, ATER RESOURCES ENGINEERING, AND ENVIRONMENTAL ENGINEERING. HE PREPONDERANCE OF PROGRAMS ARE IN WATER SCIENCE AND ENGINEERING. PROGRAMS ARE GENERALLY DEPICTED AS INTERDISCIPLINARY IN CHARACTER. THE REPORT DOES NOT EVALUATE HE QUALITY OF THE PROGRAMS, BUT RECOGNIZES THAT "QUALITY IS MOST DEPENDENT ON THE EXCELLENCE OF THE INDIVIDUAL FACULTY EMBERS." NUMEROUS CHARTS AND GRAPHS ARE EMPLOYED IN RESENTING DATA ON THE PROGRAMS, DEGREES, FACULTY, AND RENDS. (PR)

NSTITUTION NAME: AMERICAN ASSOCIATION OF PROFESSORS IN ANITARY ENGINEERING.

IRIS ACCESSION NUMBER: EW003428

ERIC ACCESSION NUMBER: ED038308

PUBLICATION DATE: JUN 69

TITLE: A DIRECTORY OF INFORMATION RESOURCES IN THE UNITED STATES, GENERAL TOXICOLOGY.

INSTITUTION CODE: BBB03422

SPONSORING AGENCY CODE: BBB00147

DESCRIPTOR: *DIRECTORIES; *INFORMATION SERVICES; PESTICIDES; POLLUTION; PUBLICATIONS; *PUBLIC HEALTH; *SAFETY; *TOXICOLOGY

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 297P.

ISSUE: RIEAUG70

ABSTRACT: LISTED ARE INSTITUTIONS AND ORGANIZATIONS WHICH CAN SERVE AS INFORMATION SOURCES ON TOXICOLOGY. EACH ENTRY GIVES THE TOXICOLOGY-RELATED INTERESTS OF THE INSTITUTION, HOLDINGS (OF PUBLICATIONS), PUBLICATIONS OF THE INSTITUTION, AND INFORMATION SERVICES PROVIDED. POISON CONTROL CENTERS ARE LISTED SEPARATELY AS AN APPENDIX. OTHER APPENDICES LIST SOME PROFESSIONAL ORGANIZATIONS HAVING SUBSTANTIAL INTEREST IN TOXICOLOGY AND SOME PERIODICALS OF TOXICOLOGICAL INTEREST. THERE IS A GEOGRAPHIC INDEX TO INSTITUTIONS AND A SUBJECT INDEX. (EB)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (0-333-852; $3.00)

INSTITUTION NAME: LIBRARY OF CONGRESS, WASHINGTON, D.C. NATIONAL REFERRAL CENTER FOR SCIENCE AND TECHNOLOGY.

SPONSORING AGENCY NAME: NATIONAL LIBRARY OF MEDICINE, BETHESDA, MD.

IRIS ACCESSION NUMBER: EW003429

ERIC ACCESSION NUMBER: ED048476

PUBLICATION DATE: MAY 70

TITLE: WATER-RESOURCES MANPOWER: SUPPLY AND DEMAND PATTERNS TO 1980.

PERSONAL AUTHOR: LEWIS, JAMES E.

INSTITUTION CODE: BBB02300

SPONSORING AGENCY CODE: BBB04155

DESCRIPTOR: *EMPLOYMENT PROJECTIONS; *LABOR SUPPLY; *MANPOWER NEEDS; OCCUPATIONAL MOBILITY; PROFESSIONAL EDUCATION; PROFESSIONAL OCCUPATIONS; *SCIENTIFIC PERSONNEL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 56P.

ISSUE: RIEJUN71

ABSTRACT: RELATING THE SUPPLY OF SCIENTIFIC MANPOWER TO THE EDUCATIONAL POTENTIAL OF THE GENERAL POPULATION AND THE PRODUCTIVE CAPACITY OF THE EDUCATIONAL SYSTEM, THIS STUDY DISAGGREGATES INDEPENDENT PROJECTIONS OF SCIENTIFIC MANPOWER SUPPLY AND DEMAND TO YIELD PROJECTIONS FOR WATER RESOURCES MANPOWER. THIS SUPPLY OF ENGINEERS, NATURAL SCIENTISTS, AND SOCIAL SCIENTISTS IS PROJECTED AT 3.3 MILLION FOR 1980, COMPARED TO A DEMAND FOR 3.5 MILLION. SUPPLY AND DEMAND RELATIONSHIPS FOR THE 1970-1980 DECADE SHOW A 10 PERCENT DEFICIT OF ENGINEERS, A 5 PERCENT SURPLUS OF NATURAL SCIENTISTS, AND A 7-8 PERCENT DEFICIT OF SOCIAL SCIENTISTS. THE SUPPLY OF WATER RESOURCES MANPOWER IS PROJECTED TO REACH 154,000 BY 1980, WITH 55,000 IN RESEARCH, COMPARED WITH A DEMAND FOR 267,000 WITH 95,000 NEEDED IN RESEARCH. CRITICAL SHORTAGES ARE FORECAST IN SEVERAL DISCIPLINES: ECOLOGY, HYDROLOGY, WATER RESOURCES PLANNING, WATER QUALITY, AND WATERSHED MANAGEMENT. NOT AVAILABLE IN HARD COPY DUE TO MARGINAL PRINT SIZE OF ORIGINAL COPY. (BH)

REPORT NUMBER: BULL-4

AVAILABILITY: LOUISIANA STATE UNIVERSITY BOOKSTORE, BATON ROUGE, LOUISIANA 70803 ($2.00, PAYMENT MUST ACCOMPANY ORDER)

INSTITUTION NAME: LOUISIANA STATE UNIV., BATON ROUGE.

SPONSORING AGENCY NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESOURCES RESEARCH.

IRIS ACCESSION NUMBER: EW003430

ERIC ACCESSION NUMBER: ED047939

PUBLICATION DATE: 70

TITLE: GIVE EARTH A CHANCE SERIES, DIRTY AIR, TRASH IS TAKING OVER, SOUNDS AND SILENCE, PESTICIDES ARE PERILOUS, TRAGEDY IN THE LAUNDROMAT, TROUBLESOME TAIL PIPES.

INSTITUTION CODE: NSD35791

SPONSORING AGENCY CODE: BBB00077

DESCRIPTOR: AIR POLLUTION CONTROL; COMMUNITY PROBLEMS; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *POLLUTION; SCIENCE ACTIVITIES; WATER POLLUTION CONTROL; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 136P.

ISSUE: RIEJUN71

ABSTRACT: THESE SIX BOOKLETS IN THE "GIVE EARTH A CHANCE SERIES" ARE TITLED, "DIRTY AIR," "TRASH IS TAKING OVER," "SOUNDS AND SILENCE," "PESTICIDES ARE PERILOUS," "TRAGEDY IN THE LAUNDROMAT," AND "TROUBLESOME TAIL PIPES." THE BOOKLETS ARE SUITABLE FOR ELEMENTARY USE, AND ARE INTENDED TO STIMULATE DISCUSSION AND ACTIVITIES RELATED TO VARIOUS FORMS OF POLLUTION. EACH BOOKLET BEGINS WITH A STORY IN WHICH THE MAIN CHARACTERS ENCOUNTER A POLLUTION PROBLEM; AN INVESTIGATION OR STUDY TO EVALUATE A PROBLEM IN THE COMMUNITY FOLLOWS. THE STORIES INVOLVE THE CHARACTERS IN ACTUAL FIELD WORK, COLLECTING AND ANALYZING DATA IN SUCH STUDIES AS AIR POLLUTION MEASUREMENT, DETERGENT STUDIES,

TRASH MEASUREMENT, ETC. THE STORIES SERVE AS A MODEL FOR ACTUAL CLASS ACTIVITIES, AND MANY QUESTIONS AND PROBLEMS ARE LEFT UNEXPLORED, BUT ARE PRESENTED TO STIMULATE FURTHER INVESTIGATION. MANY SUGGESTIONS ARE MADE FOR STUDENT ACTIVITIES. THIS WORK WAS PREPARED UNDER AN ESEA TITLE III CONTRACT. (PR)

AVAILABILITY: ESC DISTRIBUTING CO., P.O. BOX 27144, GOLDEN VALLEY, MINN. 55427 (SINGLE COPY $0.75, SET $4.00)

INSTITUTION NAME: MINNEAPOLIS INDEPENDENT SCHOOL DISTRICT 275, MINN.

SPONSORING AGENCY NAME: BUREAU OF ELEMENTARY AND SECONDARY EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003431

ERIC ACCESSION NUMBER: ED046782

PUBLICATION DATE: 70

TITLE: STREAM STUDIES.

INSTITUTION CODE: BBB04412

DESCRIPTOR: ECOLOGY; *ELEMENTARY SCHOOL SCIENCE; GRADE 6; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; NATURAL RESOURCES; *OUTDOOR EDUCATION; *TEACHING GUIDES; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 35P.

ISSUE: RIEMAY71

ABSTRACT: THIS MANUAL PROVIDES TEACHERS WITH SOME KNOWLEDGE OF ECOLOGICAL STUDY METHODS AND TECHNIQUES USED IN COLLECTING DATA WHEN PLANTS AND ANIMALS ARE STUDIED IN THE FIELD. MOST ACTIVITIES DEAL WITH THE INTERRELATEDNESS OF PLANT AND ANIMAL LIFE TO THE STRUCTURE AND CHARACTERISTICS OF A STREAM AND POND. ALSO INCLUDED IN THIS UNIT PLAN DESIGNED FOR THE SIXTH GRADE LEVEL ARE SUGGESTIONS FOR CLASSROOM AND FIELD ORGANIZATION, EQUIPMENT REQUIRED, AND METHODS OF APPROACHING THE MAJOR TOPICS - MAPPING, ANIMAL LIFE, PLANT LIFE, THE SOIL, AND THE WATER ITSELF. REFERENCE MATERIALS AUDIO-VISUAL AIDS, AND SUPPLEMENTAL ACTIVITIES ARE NOTED. (BL)

INSTITUTION NAME: HAMILTON CITY BOARD OF EDUCATION (ONTARIO).

IRIS ACCESSION NUMBER: EW003432

ERIC ACCESSION NUMBER: ED046708

PUBLICATION DATE: 1 APR 68

TITLE: WATER QUALITY CRITERIA, REPORT OF THE NATIONAL TECHNICAL ADVISORY COMMITTEE TO THE SECRETARY OF THE INTERIOR.

INSTITUTION CODE: BBB03718

DESCRIPTOR: ECOLOGY; *ENVIRONMENT; FEDERAL LEGISLATION; *FEDERAL PROGRAMS; *NATURAL RESOURCES; POLLUTION; *WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 244P.

ISSUE: RIEMAY71

ABSTRACT: CONTAINED ARE REPORTS OF FIVE SUBCOMMITTEES OF THE NATIONAL TECHNICAL ADVISORY COMMITTEE ON WATER QUALITY CRITERIA. SUBCOMMITTEES WERE RECREATION AND AESTHETICS; PUBLIC WATER SUPPLIES; FISH, OTHER AQUATIC LIFE, AND WILDLIFE; AGRICULTURAL USES; AND INDUSTRIAL WATER SUPPLIES. EACH COMMITTEE REPORT CONTAINS DISCUSSION OF THE PROBLEM AREA, CRITERIA RECOMMENDATIONS, AND A BIBLIOGRAPHY OF LITERATURE CITED. (BB)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. I 67.2: W 29/3, $3.00)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

IRIS ACCESSION NUMBER: EW003433

ERIC ACCESSION NUMBER: ED045410

PUBLICATION DATE: SEP 69

TITLE: THE PRACTICE OF WATER POLLUTION BIOLOGY.

PERSONAL AUTHOR: MACKENTHUN, KENNETH M.

INSTITUTION CODE: BBB03718

DESCRIPTOR: *BIOLOGY; *ECOLOGY; *ENVIRONMENT; MARINE BIOLOGY; *POLLUTION; PUBLIC HEALTH; RESEARCH DESIGN; *WATER POLLUTION CONTROL; DATA ANALYSIS; *WASTEWATER TREATMENT; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 293P.

ISSUE: RIEAPR71

ABSTRACT: WATER POLLUTION TECHNIQUES AND PRACTICES, INCLUDING DATA ANALYSIS, INTERPRETATION AND DISPLAY ARE DESCRIBED IN THIS BOOK INTENDED PRIMARILY FOR THE BIOLOGIST INEXPERIENCED IN THIS WORK, AND FOR SANITARY ENGINEERS, CHEMISTS, AND WATER POLLUTION CONTROL ADMINISTRATORS. THE CHARACTERISTICS OF AQUATIC ENVIRONMENTS, THEIR BIOTA, AND THE EFFECTS OF VARIOUS POLLUTANTS UPON THEM ARE DISCUSSE AND ILLUSTRATED BY EXAMPLES OF FIELD INVESTIGATION INVOLVING ORGANIC WASTES, SILTS, TOXIC WASTES, MIN DRAINAGES, EUTROPHICATION, AND RADIOACTIVE WASTES. SEPARAT CHAPTERS DESCRIBE THE BIOLOGY OF WATER SUPPLIES AND SEWAG TREATMENT. THE NATURE AND CONTROL OF BIOLOGICAL NUISANCE SUCH AS SLIMES ARE DISCUSSED. BIBLIOGRAPHY. (AUTHOR/AL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMEN PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. 0-355-359 $1.50)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

IRIS ACCESSION NUMBER: EW003434

ERIC ACCESSION NUMBER: ED045409

PUBLICATION DATE: DEC 69

TITLE: SPECTRAL ANALYSIS; APPLICATIONS IN WATER POLLUTIO CONTROL.

PERSONAL AUTHOR: WASTLER, T. A.

INSTITUTION CODE: BBB03718

DESCRIPTOR: *DATA ANALYSIS; *ENVIRONMENT; *MATHEMATICA MODELS; POLLUTION; *RESEARCH METHODOLOGY; STATISTICA ANALYSIS; *WATER POLLUTION CONTROL; *RIVERS; *SEWAGE

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS PLUS POSTAGE

DESCRIPTIVE NOTE: 100P.

ISSUE: RIEAPR71

ABSTRACT: THE STATISTICAL TECHNIQUE OF ANALYZING DAT COLLECTED AT REGULAR INTERVALS TO REVEAL PERIODIC COMPONENT OF THE DATA IS DESCRIBED BY REFERENCE TO ACTUAL RECORDS. TH DATA CHOSEN FOR ILLUSTRATION INCLUDE TIDE HEIGHT IN A RIVER BIOCHEMICAL OXYGEN DEMAND AND DISSOLVED OXYGEN IN THE SAM RIVER; DISCHARGED SALT INTO A RIVER SYSTEM AND ITS RELATIO TO THE HARDNESS OF THE WATER; AND THE DISCHARGE OF SEWAG INTO A RIVER. ANNUAL, BIANNUAL, AND OTHER CYCLES AR DEMONSTRATED IN THE DATA. THE LIMITATIONS OF THE TECHNIQUE THE SOURCES OF ERROR RESULTING FROM METHODS OF DAT COLLECTION AND CHOICE OF PARAMETERS FOR USE IN TH STATISTICAL ANALYSIS ARE DISCUSSED. IT IS EMPHASIZED THA INTERPRETATION OF THE RESULTS MUST BE BASED ON A UNDERSTANDING OF THE NATURAL PROCESS. THE BOOK IS PRIMARIL INTENDED FOR USE IN MATHEMATICAL MODELING OF ENVIRONMENTA PARAMETERS IN STUDIES OF WATER POLLUTION OF RIVERS AN ESTUARIES. THERE IS A SHORT BIBLIOGRAPHY. (AL)

REPORT NUMBER: CWT-3

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMEN PRINTING OFFICE, WASHINGTON, D.C. 20402 (GPO 0-355-390)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

IRIS ACCESSION NUMBER: EW003435

ERIC ACCESSION NUMBER: ED045393

PUBLICATION DATE: 69

TITLE: WATER - THE WASTE OF PLENTY.

PERSONAL AUTHOR: RAFFO, JOHN

INSTITUTION CODE: BBB02579

DESCRIPTOR: CONSERVATION EDUCATION; *CURRICULUM GUIDES EARTH SCIENCE; *ELEMENTARY SCHOOL SCIENCE; *ENVIRONMENTA EDUCATION; *INSTRUCTIONAL MATERIALS; TEACHING PROCEDURES WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 22P.

ISSUE: RIEAPR71

ABSTRACT: PREPARED FOR TEACHERS OF UPPER ELEMENTARY AN JUNIOR HIGH STUDENTS, THIS CURRICULUM GUIDE AIDS IN TH STUDY OF WATER AND ITS RELATIONSHIP TO THE ENVIRONMENT SERVING AS A PRELUDE TO CONSIDERING PROBLEMS OF WATE POLLUTION. THE TWELVE LESSON PLANS ARE DESIGNED AS A SERIE OF INDOOR-OUTDOOR-INDOOR EXPERIENCES WHICH ARE UTILIZED T DEVELOP ONE OR MORE CONCERNS FOR THE QUALITY OF TH ENVIRONMENT. EACH LESSON IS PLANNED TO BUILD ON TH LEARNINGS OF THE PREVIOUS LESSONS AND TO FOSTER TH MEASUREMENT AND ACHIEVEMENT OF SUGGESTED COGNITIVE AN AFFECTIVE BEHAVIORAL OBJECTIVES. PROCEDURES FOR CONDUCTIN SPECIFIC LEARNING ACTIVITIES MORE SUCCESSFULLY ARE DESCRIBE IN SEVERAL OF THE TEACHER'S NOTE SECTIONS. WORKSHEETS EVALUATION FORMS, AND A BIBLIOGRAPHY OF BOOKS AND FILMS AR INCLUDED. (BL)

AVAILABILITY: CONSERVATION AND ENVIRONMENTAL SCIENCE CENTE FOR SOUTHERN NEW JERSEY, BOX 2230, RD 2, BROWNS MILLS, N.J 08015 ($1.00)

INSTITUTION NAME: CONSERVATION AND ENVIRONMENTAL SCIENC CENTER FOR SOUTHERN NEW JERSEY, BROWNS MILLS.

IRIS ACCESSION NUMBER: EW003436

ERIC ACCESSION NUMBER: ED045392

PUBLICATION DATE: 70

TITLE: WATER QUALITY MONITORING MANUAL.

PERSONAL AUTHOR: MASON, FRED J.; HOUDART, JOSEPH F.

INSTITUTION CODE: BBB04370

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *FIELD STUDIES; RESEARCH METHODOLOGY; SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE; *STUDENT RESEARCH; *WATER POLLUTION CONTROL; WATER RESOURCES; *DATA ANALYSIS; *MONITORING; *SAMPLING

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 79P.

ISSUE: RIEAPR71

ABSTRACT: THIS MANUAL IS DESIGNED FOR STUDENTS INVOLVED IN ENVIRONMENTAL EDUCATION PROGRAMS DEALING WITH WATER POLLUTION PROBLEMS. BY ESTABLISHING A NETWORK OF ENVIRONMENTAL MONITORING STATIONS WITHIN THE EDUCATIONAL SYSTEM, FOUR STEPS TOWARD THE PREVENTION, CONTROL, AND ABATEMENT OF WATER POLLUTION ARE PROPOSED. (1) TRAIN STUDENTS TO RECOGNIZE, MONITOR, AND RECORD INFORMATION ABOUT WATER POLLUTION PROBLEMS WITHIN THEIR OWN COMMUNITY; (2) FUNNEL THE RESULTING INFORMATION TO PROPER AGENCIES; (3) DEVELOP AN AWARENESS OF GENERAL AND SPECIFIC POLLUTION PROBLEMS; (4) DEVELOP COMMUNITY ACTION, SUPPORT STATE AND FEDERAL PROGRAMS, AND DIRECT CONCERTED EFFORTS FOR THE ABATEMENT OF WATER POLLUTION. SECTIONS OF THE LABORATORY MANUAL EXPLAIN THE RESEARCH PROCEDURES FOR STUDENT MONITORS--SURVEYING THE WATER SYSTEM; SELECTING THE TESTS, SAMPLING STATIONS, AND EQUIPMENT; SAMPLING METHODS; RECORDING DATA AND REPORTING RESULTS; AND CORRECTING WATER QUALITY ABUSE. THE APPENDIX INCLUDES ADDITIONAL TESTING INFORMATION, A GLOSSARY OF TERMS, A BIBLIOGRAPHY OF BOOKS, PAMPHLETS, PERIODICALS, AND FILMS, AND A LISTING OF CITIZEN ACTION QUESTIONS, AND A SAMPLE REPORT OF A PRELIMINARY WATER QUALITY FIELD STUDY. (BL)

AVAILABILITY: CONSERVATION AND ENVIRONMENTAL STUDIES CENTER FOR SOUTHERN NEW JERSEY, BOX 223, RD 2, BROWNS MILLS, N. J. 08015 ($5.00)

INSTITUTION NAME: CONSERVATION AND ENVIRONMENTAL STUDIES CENTER, WHITESBOG, N.J.

IRIS ACCESSION NUMBER: EW003437

ERIC ACCESSION NUMBER: ED044307

PUBLICATION DATE: 1 MAY 65

TITLE: NITROGEN AND PHOSPHORUS IN WATER, AN ANNOTATED SELECTED BIBLIOGRAPHY OF THEIR BIOLOGICAL EFFECTS.

PERSONAL AUTHOR: MACKENTHUN, KENNETH M.

INSTITUTION CODE: BBB04261

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIOLOGY; ECOLOGY; *ENVIRONMENT; *POLLUTION; *WATER POLLUTION CONTROL; *NITROGEN; *PHOSPHORUS

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 140P.

ISSUE: RIEMAR71

ABSTRACT: INCLUDED IN THIS BIBLIOGRAPHY ARE ANNOTATIONS OF QUANTITATIVE DATA ON THE CONTENT OR CONCENTRATION OF NITROGEN AND PHOSPHORUS IN PLANTS AND ANIMALS, THE CONTRIBUTION TO WATER OF THESE ELEMENTS FROM VARIOUS SOURCES (SOIL, FERTILIZERS, EXCRETION, SEWAGE, PRECIPITATION, URBAN RUN-OFF), AND THE EFFECT THEIR PRESENCE HAS ON AQUATIC STANDING CROPS AND PRODUCTION RATES OF PLANKTON, FISH, HIGHER AQUATIC PLANTS AND BOTTOM ORGANISMS. FRESHWATER INVESTIGATIONS PREDOMINATE, BUT SOME MARINE STUDIES ARE INCLUDED. THERE IS AN AUTHOR INDEX AND A CROSS-REFERENCED TABLE OF CONTENTS TO THE 181 SELECTED CITATIONS OF JOURNAL ARTICLES, RESEARCH REPORTS, AND BOOKS PUBLISHED BETWEEN 1922 AND 1965. SOME ANNOTATIONS CONTAIN CITATIONS OF OTHER DOCUMENTS NOT ANNOTATED IN THIS BIBLIOGRAPHY. (AL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (PUBLIC HEALTH SERVICE PUB. 1305, $0.65)

INSTITUTION NAME: PUBLIC HEALTH SERVICE (DHEW), CINCINNATI, OHIO. DIV. OF WATER SUPPLY AND POLLUTION CONTROL.

IRIS ACCESSION NUMBER: EW003438

ERIC ACCESSION NUMBER: ED044306

PUBLICATION DATE: JUL 70

TITLE: LAWS OF THE UNITED STATES RELATING TO WATER POLLUTION CONTROL AND ENVIRONMENTAL QUALITY.

INSTITUTION CODE: BBB04260

DESCRIPTOR: *ENVIRONMENT; *LAWS; *LEGISLATION; *POLLUTION; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 256P.

ISSUE: RIEMAR71

ABSTRACT: THIS COMPILATION OF FEDERAL LEGISLATION CONTAINS COPIES OF TWELVE PUBLIC LAWS, FOUR EXECUTIVE ORDERS, AND FIVE INTERNATIONAL CONVENTIONS RELEVANT TO WATER POLLUTION CONTROL. IT ALSO CONTAINS TWO PUBLIC LAWS AND TWO EXECUTIVE ORDERS PERTAINING TO ENVIRONMENTAL QUALITY. THERE IS A BRIEF INTRODUCTION SUMMARIZING THE PROVISIONS OF EACH ACT. (AL)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. 0-44-674, $1.00)

INSTITUTION NAME: CONGRESS OF THE U.S., WASHINGTON, D.C. HOUSE COMMITTEE ON PUBLIC WORKS.

IRIS ACCESSION NUMBER: EW003439

ERIC ACCESSION NUMBER: ED025726

PUBLICATION DATE: 69

TITLE: PARTICIPATION IN PESTICIDE EDUCATION PROGRAMS AND CHANGES IN OPINION LEADERSHIP ACTIVITIES.

PERSONAL AUTHOR: LOOBY, LAWRENCE E.

DESCRIPTOR: *BEHAVIOR CHANGE; CONTROL GROUPS; *EDUCATIONAL PROGRAMS; EXPERIMENTAL GROUPS; *INFORMAL LEADERSHIP; *INFORMATION DISSEMINATION; *MERCHANTS; PESTICIDES; RESEARCH; RURAL AREAS; STATISTICAL DATA; URBAN AREAS; NEBRASKA

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 20P.; PAPER PRESENTED AT NATIONAL SEMINAR ON ADULT EDUCATION RESEARCH (TORONTO, FEBRUARY 9-11, 1969)

ISSUE: RIEJUN69

ABSTRACT: A STUDY WAS MADE TO SEE IF AN EDUCATIONAL PROGRAM ON THE SAFE AND PROPER USE OF PESTICIDES WOULD INCREASE THE OPINION LEADERSHIP ACTIVITIES OF PESTICIDE DEALERS AND THE AMOUNT OF QUALITY OF INFORMATION THEY CONVEYED TO THEIR CUSTOMERS AND OTHER DEALERS. THE DEALERS SELECTED CAME FROM EIGHT RURAL COUNTIES AND TWO URBAN COMMUNITIES IN NEBRASKA; THEY WERE DIVIDED INTO AN EXPERIMENTAL AND A CONTROL GROUP FOR EACH AREA. EDUCATIONAL PROGRAMS PROVIDED DURING A 12-MONTH PERIOD INCLUDED WORKSHOPS, CLASSES, AND CONFERENCES AS WELL AS BULLETINS, BROCHURES, AND RADIO AND TELEVISION PROGRAMS. THE DEALERS WERE INTERVIEWED BEFORE AND AFTER THE PROGRAM. DATA GATHERED INDICATED THAT PARTICIPATION IN PESTICIDE EDUCATION PROGRAMS DID NOT APPEAR TO BE RELATED TO INCREASE IN OPINION LEADERSHIP ACTIVITIES; HOWEVER, THE SCALE USED DID NOT MEASURE ACTUAL EFFECTS OF THE ACTIVITIES. NOMINATIONS OF THE OPINION LEADERS BY THEIR CUSTOMERS, WHO MENTIONED THEM AS SOURCES OF INFORMATION, SEEMED TO CONFIRM THE OPINION LEADERSHIP SCALE. (NL)

IRIS ACCESSION NUMBER: EW003440

ERIC ACCESSION NUMBER: ED043527

PUBLICATION DATE: DEC 69

TITLE: COOPERATIVE WATER RESOURCES RESEARCH AND TRAINING 1969 ANNUAL REPORT.

INSTITUTION CODE: BBB04155

DESCRIPTOR: *ANNUAL REPORTS; CONSERVATION EDUCATION; ECOLOGY; *NATURAL RESOURCES; POLLUTION; REGIONAL PLANNING; WATER POLLUTION CONTROL; *WATER RESOURCES; *RESEARCH; *TRAINING

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 350P.

ISSUE: RIEFEB71

ABSTRACT: THIS REPORT IS PRESENTED IN FOUR PARTS: (1) RESEARCH RESULTS AND THEIR APPLICATION; (2) MANPOWER, TRAINING AND PUBLIC INVOLVEMENTS; (3) OWRR ACTIVITIES; (4) HIGHLIGHT REPORTS BY THE 51 STATE INSTITUTE DIRECTORS. PART 1 REVIEWS THE RESULTS EXPECTED TO BE FORTHCOMING THROUGH PROJECTS FINANCED DURING THE CALENDAR YEAR 1969. THIS SECTION FOCUSES ON 12 WATER RELATED PROBLEM AREAS, INCLUDING SUCH PROBLEMS AS IMPROVEMENT OF WATER RESOURCE SYSTEMS, HEATED WATER DISCHARGE, SEDIMENT, WATER QUALITY, WATER SUPPLY AND DEMAND, WATER-CAUSED DAMAGES, WATER PLANNING AND ECOLOGY, METROPOLITAN WATER SYSTEMS, INFORMATION DISSEMINATION, AND OTHERS. PART 2 DISCUSSES THE CONTRIBUTIONS TO TRAINING, THE PRODUCTION OF REPORTS AND PUBLICATIONS, AND DISSEMINATION OF INFORMATION DURING 1969. THE VARIOUS ACTIVITIES OF THE OFFICE OF WATER RESOURCES RESEARCH (OWRR) ARE CONSIDERED IN PART 3. THE FINAL SECTION REVIEWS FOR EACH STATE ITS WATER PROBLEMS AND RELATED RESEARCH, POSSIBLE FUTURE PROGRAM DIRECTIONS, AND ACADEMIC AND PUBLIC INVOLVEMENT. THE 19 APPENDICES PROVIDE LISTINGS OF PROJECTS, FUNDING, ALLOCATIONS, RESEARCH, REFERENCES, ASSOCIATED COLLEGES AND UNIVERSITIES, AND OTHER USEFUL INFORMATION. (PR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. 0-372-992)

INSTITUTION NAME: DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF WATER RESOURCES RESEARCH.

IRIS ACCESSION NUMBER: EW003441

ERIC ACCESSION NUMBER: ED041766

PUBLICATION DATE: 69

TITLE: WATER INTAKE BY SOIL, EXPERIMENTS FOR HIGH SCHOOL STUDENTS.

INSTITUTION CODE: BBB02411

DESCRIPTOR: *AGRONOMY; *EARTH SCIENCE; NATURAL RESOURCES; SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE; *SOIL CONSERVATION; SOIL SCIENCE; WATER POLLUTION CONTROL; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 12P.

ISSUE: RIEDEC70

ABSTRACT: PRESENTED ARE A VARIETY OF SURFACE RUN-OFF EXPERIMENTS FOR HIGH SCHOOL STUDENTS. THE EXPERIMENTS ARE ANALOGIES TO BASIC CONCEPTS ABOUT WATER INTAKE, AS RELATED TO WATER DELIVERY, SOIL PROPERTIES AND MANAGEMENT, FLOODS, AND CONSERVATION MEASURES. THE MATERIALS NEEDED TO PERFORM THE EXPERIMENTS ARE EASILY OBTAINABLE. THE EXPERIMENTS ARE

FOLLOWED BY A GENERAL DISCUSSION ON THE HYDROLOGIC CYCLE, THE CAUSES OF FLOODS AND TYPES OF FLOODS. THE PUBLICATION CONCLUDES WITH THE ROLE OF RESEARCH IN STUDYING WATER INTAKE BY SOIL. (BB)

REPORT NUMBER: MISC-PUB-25

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (CAT. NO. 0-359-932, $0.10)

INSTITUTION NAME: DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C. AGRICULTURAL RESEARCH SERVICE.

IRIS ACCESSION NUMBER: EW003442

ERIC ACCESSION NUMBER: ED040284

PUBLICATION DATE: 2 AUG 67

TITLE: MANPOWER AND TRAINING NEEDS IN WATER POLLUTION CONTROL. SENATE DOCUMENT NO. 49.

INSTITUTION CODE: BBB03718; FGK18375

DESCRIPTOR: EDUCATIONAL NEEDS; EDUCATIONAL OPPORTUNITIES; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; *FEDERAL LEGISLATION; *MANPOWER NEEDS; MANPOWER UTILIZATION; PROFESSIONAL PERSONNEL; RECRUITMENT; SUBPROFESSIONALS; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. PLUS POSTAGE

DESCRIPTIVE NOTE: 52P.

ISSUE: RIEOCT70

ABSTRACT: TO DETERMINE TRAINED MANPOWER NEEDS AND TRAINING RESOURCES IN THE CLEAN WATER FIELD, DATA WERE GATHERED FROM INTERVIEWS WITH STATE AND FEDERAL AGENCIES AS WELL AS THE WATER POLLUTION CONTROL FEDERATION, FROM PRIOR MANPOWER REPORTS, AND FROM BUREAU OF CENSUS EMPLOYMENT DATA. AFTER ANALYSIS OF PRESENT MANPOWER RESOURCES AND FUTURE REQUIREMENTS, EDUCATIONAL AND TRAINING NEEDS, TRAINING PROGRAMS AND OPPORTUNITIES, AND PERSONNEL UTILIZATION AND RECRUITMENT IT WAS CONCLUDED THAT: (1) TOTAL INDUSTRY AND GOVERNMENT DEMANDS FOR ENGINEERS AND SCIENTISTS WILL PROBABLY EXCEED THE SUPPLY FOR THE NEXT SEVERAL YEARS, (2) THERE IS A CONTINUING NEED FOR UPGRADING AND UPDATING PROFESSIONAL SKILLS THROUGH SHORT-COURSE TRAINING, AND (3) EXISTING PROGRAMS FOR THE TRAINING OF SEWAGE TREATMENT PLANT OPERATORS ARE INADEQUATE IN BOTH QUALITY AND QUANTITY. SOME CORRECTIVE ACTIONS TO BE EFFECTED BY THE FEDERAL WATER POLLUTION CONTROL ADMINISTRATION (FWPCA) INCLUDE: (1) CONTINUE FWPCA FINANCIAL SUPPORT OF PROGRAMS FOR TRAINING GRADUATE STUDENTS IN SPECIFIC WATER POLLUTION CONTROL DISCIPLINES, (2) ENCOURAGE AND ASSIST STATES IN PLACING GREATER EMPHASIS ON TRAINING, AND (3) IMPROVE THE CONDITIONS OF EMPLOYMENT FOR OPERATORS OF WASTE TREATMENT PLANTS. (SB)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (90 SENATE DOC. 49, $.20)

INSTITUTION NAME: CONGRESS OF THE U.S., WASHINGTON, D.C. SENATE.; DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION.

IRIS ACCESSION NUMBER: EW003443

ERIC ACCESSION NUMBER: ED040065

PUBLICATION DATE: 70

TITLE: WATER POLLUTION, A SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION WORKBOOK.

PERSONAL AUTHOR: BERG, GEORGE G.

INSTITUTION CODE: BBB03688

DESCRIPTOR: *CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; INSTRUCTIONAL MATERIALS; *POLLUTION; PUBLIC HEALTH; REFERENCE MATERIALS; *WATER POLLUTION CONTROL; *WATER RESOURCES; *CASE HISTORIES; DISEASES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 36P.

ISSUE: RIEOCT70

ABSTRACT: ANALYZED ARE THE REASONS WHY PRESENT MECHANISMS FOR THE CONTROL OF WATER PURITY ARE INADEQUATE. THE CONTROL OF WATERBORNE EPIDEMICS IS DISCUSSED TO ILLUSTRATE A PROBLEM WHICH HAS BEEN SOLVED, THEN DEGRADATION OF THE ENVIRONMENT IS PRESENTED AS AN UNSOLVED PROBLEM. CASE HISTORIES ARE GIVEN OF POLLUTION AND ATTEMPTS AT CONTROL IN RIVERS, LAKES, GROUND WATERS, ESTUARIES AND OCEANS. SUGGESTIONS ARE MADE FOR MANAGEMENT OF WATER RESOURCES. THE IMPORTANCE OF PROVIDING THE PUBLIC WITH ADEQUATE INFORMATION IS EMPHASIZED. A SHORT BIBLIOGRAPHY IS INCLUDED. (EB)

AVAILABILITY: SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION, 30 EAST 68TH ST., NEW YORK, N. Y. 10021 ($2.00)

INSTITUTION NAME: SCIENTISTS' INST. FOR PUBLIC INFORMATION, NEW YORK, N. Y.

IRIS ACCESSION NUMBER: EW003444

ERIC ACCESSION NUMBER: ED039142

PUBLICATION DATE: 70

TITLE: POLLUTION, AN ENVIRONMENTAL CRISIS.

PERSONAL AUTHOR: FISCHER, RICHARD B.

INSTITUTION CODE: BBB03217

DESCRIPTOR: *CONSERVATION EDUCATION; *ENVIRONMENTA EDUCATION; LAND USE; NATURAL RESOURCES; PESTICIDES *POLLUTION; POPULATION GROWTH; WATER RESOURCES; *FERTILIZER

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 11P.

ISSUE: RIESEP70

ABSTRACT: THIS DOCUMENT, WRITTEN FOR TEACHERS, OUTLINES TH CAUSES AND EXTENT OF ENVIRONMENTAL PROBLEMS RELATING TO AI POLLUTION, WATER POLLUTION, THE USE OF FERTILIZERS AN PESTICIDES, LAND USE, AND POPULATION DENSITY. A SHOR BIBLIOGRAPHY INCLUDES REFERENCES TO PERIODICALS AND BOOK DEALING WITH TEACHING METHODS AS WELL AS REFERENCES FO BACKGROUND READING. (EB)

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT.

IRIS ACCESSION NUMBER: EW003445

ERIC ACCESSION NUMBER: ED036631

PUBLICATION DATE: 4 OCT 69

TITLE: EDUCATION OF TECHNICIANS FOR WATER CONSERVATION AN WASTEWATER CONTROL.

PERSONAL AUTHOR: BROOKING, WALTER J.

DESCRIPTOR: *CURRICULUM GUIDES; FEDERAL LEGISLATION; IMPROVEMENT; *POST SECONDARY EDUCATION; *PROGRAI DEVELOPMENT; RECRUITMENT; SPEECHES; *SUBPROFESSIONALS; VOCATIONAL EDUCATION; WATER POLLUTION CONTROL; *WATEI RESOURCES; *FAYETTEVILLE TECHNICAL INSTITUTE; *OPERATION: (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 19P.; PRESENTATION GIVEN AT THE OPERATOI TRAINING WORKSHOP AT THE WATER POLLUTION CONTROL FEDERATIOI (DALLAS, TEXAS, OCTOBER 4, 1969)

ISSUE: RIEJUN70

ABSTRACT: THERE IS A GROWING NEED FOR SUPPORTIVE PERSONNEI WITH TECHNICAL PREPARATION IN WATER AND WASTEWATEF PURIFICATION AND WATER RESOURCE CONSERVATION. A CURRICULUM AND PROGRAM GUIDE WAS DEVELOPED IN 1965-66 BY FAYETTEVILLE TECHNICAL INSTITUTE FOR USE BY INSTITUTIONS INTERESTED IN ESTABLISHING A PROGRAM TO EDUCATE TECHNICIANS. MEETING THE NEED FOR INCREASING WATER TECHNICIAN PROGRAMS LIES WITHIN THE REACH OF OUR NATIONAL LEADERS, PARTICULARLY EMPLOYERS. METHODS SUCH AS IMPROVING STUDENT RECRUITMENT AND STUDENT DEVELOPMENT PROGRAMS, UPGRADING PRESENT EMPLOYEES IN POST-HIGH SCHOOL PROGRAMS, AND UTILIZING FUNDS PROVIDED BY CURRENT VOCATIONAL EDUCATION LEGISLATION SHOULD BE UTILIZED. A SUGGESTED REFERENCE AVAILABILITY LIST IS APPENDED. (GR)

IRIS ACCESSION NUMBER: EW003446

ERIC ACCESSION NUMBER: ED033051

PUBLICATION DATE: 68

TITLE: A GUIDE FOR TEACHING CONSERVATION EDUCATION IN THE SCHOOLS OF LOUISIANA; SOIL AND WATER SECTION. (REVISION)

PERSONAL AUTHOR: WARE, GEORGE; MCCOLLUM, HOWARD P.

INSTITUTION CODE: LJN43725

DESCRIPTOR: *CONSERVATION EDUCATION; ELEMENTARY SCHOOL SCIENCE; SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE; *SOIL CONSERVATION; *TEACHING GUIDES; *WATER RESOURCES; LOUISIANA HIGH SCHOOL CONSERVATION CURRICULUM PRO

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$4.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 80P.

ISSUE: RIEFEB70

ABSTRACT: THIS PUBLICATION IS A REVISED EDITION OF THE TEACHERS GUIDE FOR TEACHING SOIL AND WATER CONSERVATION IN THE ELEMENTARY AND JUNIOR HIGH SCHOOLS OF LOUISIANA. THE FORMAT OF THE GUIDE INCLUDES A STATEMENT OF CONCEPT, FOLLOWED BY DISCUSSION OF THE CONCEPT, SUGGESTED ACTIVITIES, AND POSSIBLE OUTCOMES. THERE IS A GLOSSARY OF TERMS AND A SECTION THAT INCLUDES A BRIEF DESCRIPTION OF THE MAJOR LAND RESOURCE AREAS IN LOUISIANA. THE CONCEPTS INCLUDED, IN THEIR SUGGESTED TEACHING SEQUENCE, ARE: THE IMPORTANCE OF SOIL AS A RESOURCE, THE FORMATION AND MAKE-UP OF SOIL, TYPES OF SOIL, SOIL LOSSES AND DETERIORATION, THE ESSENTIAL NATURE OF WATER, WATER AS A RENEWABLE SOURCE, FLOODS, POLLUTION, WATER AS A SOURCE OF RECREATION, AND CONSERVATION OF SOIL AND WATER. (BR)

INSTITUTION NAME: LOUISIANA STATE DEPT. OF EDUCATION, BATON ROUGE.

IRIS ACCESSION NUMBER: EW003447

ERIC ACCESSION NUMBER: ED029121

PUBLICATION DATE: FEB 69

TITLE: MANPOWER REQUIREMENTS FOR POLLUTION CONTROL AND WATER RESOURCES IN INDIANA AND A RELATED POLLUTION CONTROL TECHNOLOGY CURRICULUM. MANPOWER REPORT 69-1.

INSTITUTION CODE: BBB00237

DESCRIPTOR: *AIR POLLUTION CONTROL; ASSOCIATE DEGREES; *CURRICULUM DESIGN; EDUCATIONAL NEEDS; EMPLOYMENT OPPORTUNITIES; EMPLOYMENT PROJECTIONS; MANPOWER NEEDS; *OCCUPATIONAL SURVEYS; PROFESSIONAL OCCUPATIONS; QUESTIONNAIRES; STATE SURVEYS; *TECHNICAL EDUCATION; TECHNICAL OCCUPATIONS; *WATER RESOURCES; *INDIANA

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 70P.

ISSUE: R1ESEP69

ABSTRACT: THE PURPOSE OF THIS STUDY WAS TO IDENTIFY THE TRAINED MANPOWER NEEDED TO COPE WITH INDIANA'S MOUNTING PROBLEMS IN AIR AND WATER POLLUTION CONTROL, LIQUID AND SOLID WASTE DISPOSAL, AND WATER SUPPLY AND RESOURCES. THIS REPORT CONTAINS DATA CONCERNING THE PRESENT EMPLOYMENT, CURRENT JOB OPPORTUNITIES, AND PROJECTED MANPOWER NEEDS FOR RELATED PROFESSIONAL AND TECHNICIAN LEVEL OCCUPATIONS. INCLUDED ARE DETAILS OF A PROPOSED ASSOCIATE DEGREE PROGRAM DESIGNED TO PREPARE POLLUTION CONTROL TECHNICIANS. A 22-ITEM SELECTED BIBLIOGRAPHY, SAMPLE COPY OF THE QUESTIONNAIRE USED, APPENDIXES AND NUMEROUS STATISTICAL TABLES ARE INCLUDED IN THE REPORT. (CH)

AVAILABILITY: OFFICE OF MANPOWER STUDIES, PURDUE UNIVERSITY, LAFAYETTE, INDIANA 47907 ($1.50).

INSTITUTION NAME: PURDUE UNIV., LAFAYETTE, IND. OFFICE OF MANPOWER STUDIES.

IRIS ACCESSION NUMBER: EW003448

ERIC ACCESSION NUMBER: ED025905

PUBLICATION DATE: FEB 68

TITLE: SWIMMING POOL WATER TREATMENT CHEMICALS AND/OR PROCESSES. STANDARD NO. 22.

INSTITUTION CODE: MVK57215

DESCRIPTOR: *CHEMISTRY; ENVIRONMENTAL CRITERIA; FACILITY GUIDELINES; *PUBLIC HEALTH; SANITATION; *SANITATION IMPROVEMENT; *STANDARDS; *SWIMMING POOLS; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 42P.

ISSUE: R1EJUN69

ABSTRACT: CHEMICALS OR PROCESSES USED OR INTENDED FOR USE, IN THE TREAIMENT OF SWIMMING POOL WATER ARE COVERED. MINIMUM PUBLIC HEALTH LIMITS OR ACCEPTABILITY IN REGARD TO TOXICITY, BIOLOGICAL EFFECTIVENESS, AND CHEMICAL BEHAVIOR AND ANALYSIS ARE PRESENTED. THE APPENDICES GIVE GUIDELINES TO THE SCIENTIFIC AND STATISTICALLY SOUND EVALUATIONS TO DETERMINE THE EFFICACY AND SAFETY OF SWIMMING POOL WATER TREATMENT CHEMICALS OR PROCESSES. (RH)

AVAILABILITY: NATIONAL SANITATION FOUNDATION, P. O. BOX 1468, ANN ARBOR, MICHIGAN 48106

INSTITUTION NAME: NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICH.

IRIS ACCESSION NUMBER: EW003449

ERIC ACCESSION NUMBER: ED025618

PUBLICATION DATE: 31 MAY 68

TITLE: PROGRAM OF TEACHER EDUCATION FOR ENVIRONMENTAL TECHNOLOGY (POTEET).

INSTITUTION CODE: MVK57215

SPONSORING AGENCY CODE: BBB00430; BBB01028

DESCRIPTOR: AIR POLLUTION CONTROL; *COLLEGE TEACHERS; COMMUNITY COLLEGES; CURRICULUM DEVELOPMENT; EDUCATIONAL PROGRAMS; *ENVIRONMENTAL TECHNICIANS; HEALTH OCCUPATIONS EDUCATION; HUMAN ENGINEERING; *PROGRAM DESCRIPTIONS; PUBLIC HEALTH; SANITATION; SCHOLARSHIPS; *TEACHER EDUCATION; *TEACHER RECRUITMENT; TEACHER SHORTAGE; WATER RESOURCES; ENVIRONMENTAL TECHNOLOGY; *PROGRAM OF TEACHER EDUCATION FOR ENVIRONMENTAL TE

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 15P.

ISSUE: R1EMAY69

ABSTRACT: THE ENVIRONMENTAL TECHNICIAN, A NEW BUT NECESSARY SUBORDINATE OF A PROFESSIONAL ENVIRONMENTALIST, MIGHT BE EMPLOYED BY A HEALTH DEPARTMENT, NATURAL RESOURCES COMMISSION, STATE AGRICULTURE DEPARTMENT, MUNICIPAL WATER PLANT, OR BY BUSINESS OR INDUSTRY IN SELF-INSPECTION AND CORRECTIVE ACTIVITIES. THE PROGRAM OF TEACHER EDUCATION FOR ENVIRONMENTAL TECHNOLOGY, BY DEVELOPING TEACHER TRAINING IN THE FIELD OF ENVIRONMENTAL HEALTH, HOPES EVENTUALLY TO PROMOTE THE ENVIRONMENTAL TECHNICIAN AND FREE THE PROFESSIONAL FOR MANAGERIAL RESPONSIBILITIES. THE PROJECT PROPOSES (1) TO EVALUATE THE TRAINEE'S AREAS OF COMPETENCE, AND (2) TO COME TO MUTUAL AGREEMENT WITH THE SELECTED COMMUNITY COLLEGE ABOUT THE KINDS OF EXPERIENCE IN THE CLASSROOM AND ON THE JOB THAT WOULD BEST PREPARE THE TRAINEE FOR HIS NEW EXPERIENCES. THE TRAINING WOULD CONSIST MAINLY OF UNIVERSITY STUDY WITH RELATED TEACHING EXPERIENCES IN THE COMMUNITY COLLEGE. THE INDIVIDUAL WOULD SPEND AT LEAST SOME TIME AT THE TRAINING CENTER OPERATED IN COOPERATION WITH THE UNIVERSITY OF MICHIGAN SCHOOL OF PUBLIC HEALTH, STUDYING THE DEVELOPMENT AND APPLICATION OF STANDARDS IN ENVIRONMENTAL HEALTH. POTENTIAL ENVIRONMENTAL TECHNOLOGY TEACHERS MIGHT BE PRACTITIONERS IN THE FIELD OR TEACHERS IN RELATED FIELDS. OTHER FUNCTIONS OF THE PROJECT WILL BE CURRICULUM DEVELOPMENT AND STUDENT RECRUITMENT. (JK)

INSTITUTION NAME: NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICH.

SPONSORING AGENCY NAME: KELLOG (W.K.) FOUNDATION, BATTLE CREEK, MICH.; STATLER FOUNDATION, NEW YORK, N.Y.

IRIS ACCESSION NUMBER: EW003450

ERIC ACCESSION NUMBER: ED025101

PUBLICATION DATE: NOV 65

TITLE: WATER QUALITY CONSIDERATIONS AND RELATED DISHWASHING PROBLEMS.

PERSONAL AUTHOR: MCCLELLAND, NINA I.

INSTITUTION CODE: MVK57215

DESCRIPTOR: *CLEANING; DISEASE CONTROL; *DISHWASHING; HEALTH NEEDS; PUBLIC HEALTH; *SANITATION; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 32P.

ISSUE: R1EMAY69

ABSTRACT: A NUMBER OF THE CHEMICAL AND PHYSICAL FACTORS WHICH CAUSE DISHWASHING PROBLEMS ARE PRESENTED IN A SERIES OF CHARTS. WATER QUALITY CONSIDERATIONS ARE VITAL, BUT THE IMPORTANCE OF GOOD HOUSEKEEPING AND PROPER OPERATING PRACTICES CANNOT AND MUST NOT BE MINIMIZED. TOPICS DISCUSSED INCLUDE--(1) DISSOLVED MINERALS, (2) DISSOLVED GASES, (3) DETERGENTS, AND (4) APPENDIX. (RH)

INSTITUTION NAME: NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICH.

IRIS ACCESSION NUMBER: EW003451

ERIC ACCESSION NUMBER: ED017371

PUBLICATION DATE: JUN61

TITLE: SOIL AND WATER CONSERVATION PROJECTS AND ACTIVITIES, A GUIDE FOR 4-H CLUB LEADERS.

PERSONAL AUTHOR: FOSTER, ALBERT B. ; FOX, ADRIAN C.

INSTITUTION CODE: FGK21416

DESCRIPTOR: ACTIVITIES; AGRICULTURAL EDUCATION; CONCEPT FORMATION; *CONSERVATION EDUCATION; FERTILIZERS; MODELS; PLANT GROWTH; PROJECTS; *SOIL CONSERVATION; *WATER RESOURCES; YOUTH; YOUTH CLUBS; 4-H CLUBS; FEDERAL EXTENSION SERVICE; SOIL CONSERV. SERVICE

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 32P.

ISSUE: CUMREPT

ABSTRACT: THIS PUBLICATION WAS PREPARED BY THE SOIL CONSERVATION SERVICE FOR USE WITH YOUTH GROUPS. VARIOUS ACTIVITIES AND PROJECTS ARE PRESENTED WHICH CAN BE USED TO DEVELOP CONCEPTS ABOUT SOIL AND WATER CONSERVATION. IN ORDER TO SIMPLIFY THE PROCESS OF DEMONSTRATING THESE ACTIVITIES, MANY OF THE CONCEPTS ARE PICTORIALLY ILLUSTRATED. THE ACTIVITIES INCLUDE--(1) MAKING SOIL ARTIFICIALLY, (2) COMPARING THE SIZE OF DIFFERENT TYPES OF SOIL PARTICLES, (3) HOW SOIL IS AFFECTED BY WATER, PLANTS, AND ORGANIC MATTER, (4) HOW A STREAM CARRIES SEDIMENT, (5) THE VALUE OF CONTOURING, (6) HOW FERTILIZER AFFECTS PLANT GROWTH, (7) HOW BIRDS HELP DESTROY INSECTS, (8) THE MANY USES OF WOOD, AND (9) BUILDING A MODEL CONSERVATION FARM. (ES)

REPORT NUMBER: PA-377

INSTITUTION NAME: DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003452

ERIC ACCESSION NUMBER: ED012642

PUBLICATION DATE: JAN67

TITLE: THE FIGHT FOR CLEAN WATER.

PERSONAL AUTHOR: SCHOONOVER, ROBERT A.

INSTITUTION CODE: HWP26240

DESCRIPTOR: *COMMUNITY HEALTH SERVICES; HEALTH; HEALTH CONDITIONS; HEALTH SERVICES; *PUBLIC HEALTH; SANITATION; *SANITATION IMPROVEMENT; *WATER RESOURCES; FLORIDA; JACKSONVILLE; *INDUSTRIAL WASTES; *SEWAGE

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$5.40 PLUS POSTAGE

DESCRIPTIVE NOTE: 118P.

ISSUE: CUMREPT

ABSTRACT: THIS PUBLICATION DISCUSSES IN DEPTH THE PROBLEM OF WATER POLLUTION AS SEEN BY THE FLORIDA STATE BOARD OF HEALTH. DOMESTIC SEWAGE, INDUSTRIAL WASTES, AND ALLEVIATION ACTIVITIES OF THE STATE BOARD OF HEALTH AND COUNTY HEALTH DEPARTMENTS ARE DESCRIBED. SIX APPENDIXES PRESENT CORRESPONDENCE AND REPORTS REGARDING THE PROBLEM. THIS IS AN ISSUE OF "FLORIDA HEALTH NOTES," VOLUME 59, NUMBER 1, JANUARY 1967. (SF)

INSTITUTION NAME: FLORIDA STATE BOARD OF HEALTH, JACKSONVILLE.

IRIS ACCESSION NUMBER: EW003453

ERIC ACCESSION NUMBER: ED103228

PUBLICATION DATE: 73

TITLE: SAVE OUR WATER RESOURCES.

PERSONAL AUTHOR: BROMLEY, ALBERT W.

INSTITUTION CODE: BBB01068

DESCRIPTOR: BIOLOGICAL SCIENCES; CONSERVATION EDUCATION; ECOLOGY; ENVIRONMENT; ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *NATURAL RESOURCES; OUTDOOR EDUCATION; POLLUTION; SCIENCE EDUCATION; SECONDARY GRADES; *STUDENT PROJECTS; *WATER POLLUTION CONTROL; *WATER RESOURCES; PROJECT SOAR

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.95 PLUS POSTAGE

DESCRIPTIVE NOTE: 32P.

ISSUE: RIEJUL75

ABSTRACT: THE PURPOSE OF THIS BOOKLET, DEVELOPED AS PART OF PROJECT SOAR (SAVE OUR AMERICAN RESOURCES), IS TO GIVE SCOUT LEADERS SOME FACTS ABOUT THE WORLD'S RESOURCES, THE SOURCES OF WATER POLLUTION, AND HOW PEOPLE CAN HELP IN OBTAINING SOLUTIONS. AMONG THE TOPICS DISCUSSED ARE THE WORLD'S WATER RESOURCES, THE WATER CYCLE, WATER QUALITY, SOURCES OF WATER POLLUTION, THE NEED FOR OXYGEN, AND TYPES OF WATER POLLUTION (SUCH AS SILTATION, SEWAGE, ORGANIC WASTES, PLANT NUTRIENTS, MINERAL SUBSTANCES AND SALTS, RADIOACTIVE SUBSTANCES, AND THERMAL POLLUTION). METHODS OF PRESERVING OUR WATER RESOURCES FOR THE FUTURE ARE DISCUSSED. LEARNING OBJECTIVES FOR WATER QUALITY PROJECTS, WATER SUPPLY PROJECTS, AND WATER CONSERVATION PROJECTS ARE INCLUDED. A LIST OF STUDENT PROJECTS RELATING TO WATER QUALITY, MARINE WATERS, FISH BIOLOGY, AND FISH CONSERVATION IS APPENDED. (BT)

INSTITUTION NAME: BOY SCOUTS OF AMERICA, NEW BRUNSWICK, N.J.

IRIS ACCESSION NUMBER: EW003454

ERIC ACCESSION NUMBER: ED103227

PUBLICATION DATE: 74

TITLE: TEXAS WATER QUALITY BOARD TEACHERS WORKSHOP PROGRAM.

INSTITUTION CODE: BBB11360

DESCRIPTOR: BIOLOGICAL SCIENCES; CHEMISTRY; *ENVIRONMENTAL EDUCATION; FIELD STUDIES; *INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; NATURAL RESOURCES; PHYSICAL ENVIRONMENT; POLLUTION; SCIENCE EDUCATION; *TEACHER WORKSHOPS; TEACHING GUIDES; WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; WATER RESOURCES; *WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$6.97 PLUS POSTAGE

DESCRIPTIVE NOTE: 150P.

ISSUE: RIEJUL75

ABSTRACT: THESE MATERIALS ARE DESIGNED FOR TEACHERS PARTICIPATING IN AN INSERVICE WORKSHOP ON WATER QUALITY. INCLUDED IN THE MATERIALS ARE A WORKSHOP AGENDA, A WATER AWARENESS PRETEST, AND THE VARIOUS PARAMETERS AND TESTS THAT ARE USED TO DETERMINE AND MEASURE WATER QUALITY. THE PARAMETERS ARE DISCUSSED FROM THE STANDPOINT OF THEIR POTENTIAL IMPACT TO DOMESTIC WATERS, WILDLIFE, AND AQUATIC LIFE. A DESCRIPTION OF THE CHEMISTRY OF THE PARAMETERS AND PROCEDURES IS INCLUDED WHERE APPLICABLE. THESE MATERIALS INCLUDE TWO READERS ON WATER QUALITY. THE FIRST READER DISCUSSES SEWERAGE SYSTEMS, BOTH DOMESTIC AND INDUSTRIAL, THE PROBLEMS ASSOCIATED WITH WASTE TREATMENT, AND A LISTING OF THE MORE SIGNIFICANT DEFINITIONS. THE SECOND READER PRESENTS MEASUREMENTS AND EUTROPHICATION. AFTER THE SECOND READER, THERE IS A SECTION ON THE INTERPRETATION OF WATER PARAMETER DATA, FOLLOWED BY A LISTING OF STUDENT-ORIENTED LEARNING ACTIVITIES FOR POSSIBLE INCLUSION INTO THE CURRICULUM. A BIBLIOGRAPHY AND TEACHER WORKSHOP EVALUATION FORM CONCLUDE THIS WORKSHOP GUIDE. (BT)

INSTITUTION NAME: TEXAS WATER QUALITY BOARD, AUSTIN.

IRIS ACCESSION NUMBER: EW003455

ERIC ACCESSION NUMBER: ED113589

PROGRAM AREA: 95

PUBLICATION DATE: MAR 75

TITLE: ASSESSMENT AND DETERMINATION OF BASIC COMPETENCIES NECESSARY FOR UTILITY OPERATORS UTILIZING GROUND WATER SUPPLIES. PART 1. FINAL REPORT.

INSTITUTION CODE: BBB06615

SPONSORING AGENCY CODE: RMQ66000; ZQU97865

DESCRIPTOR: *ACADEMIC STANDARDS; CERTIFICATION; CURRICULUM DEVELOPMENT; *CURRICULUM RESEARCH; *EDUCATIONAL ASSESSMENT; EMPLOYMENT QUALIFICATIONS; MUNICIPALITIES; PERFORMANCE BASED EDUCATION; QUESTIONNAIRES; SURVEYS; *TECHNICAL EDUCATION; UTILITIES; *WATER RESOURCES; *WATER UTILITY OPERATORS; WISCONSIN; *GROUNDWATER; WATER SUPPLY

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$3.32 PLUS POSTAGE

DESCRIPTIVE NOTE: 57P.

ISSUE: RIEMAR76

ABSTRACT: THE DOCUMENT IS A FINAL REPORT OF A STUDY OF THE BASIC COMPETENCIES REQUIRED BY WATER UTILITY OPERATORS USING A GROUND WATER SOURCE, CONDUCTED AT SOUTHWEST WISCONSIN VOCATIONAL-TECHNICAL INSTITUTE FROM JULY TO AUGUST 1974. THE OVERALL PURPOSE OF THE PROJECT IS TO DEVELOP A COMPETENCY-BASED CURRICULUM MODEL FOR STATEWIDE USE IN MUNICIPAL ENGINEERING TECHNICIAN PROGRAMS. THE RESEARCH WAS CARRIED OUT IN THE FORM OF A COMPETENCY SURVEY MAILED TO WATER TREATMENT PLANT OPERATORS. THE SURVEY REVEALED CHARACTERISTICS OF THE UTILITIES AND THE OPERATORS, THE OPERATORS' COMPETENCIES AND TRAINING DESIRES. THE RESULTANT DATA ARE DISPLAYED IN TABLES AND THE SURVEY INSTRUMENT IS APPENDED. (AUTHOR/NJ)

REPORT NUMBER: VT-102-165

INSTITUTION NAME: SOUTHWEST WISCONSIN VOCATIONAL-TECHNICA SCHOOL, FENNIMORE.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW) WASHINGTON, D.C.; WISCONSIN STATE BOARD OF VOCATIONAL TECHNICAL, AND ADULT EDUCATION, MADISON.

IRIS ACCESSION NUMBER: EW003456

ERIC ACCESSION NUMBER: ED113571

PUBLICATION DATE: JUN 71

TITLE: PLANNING FOR AN IRRIGATION SYSTEM.

PERSONAL AUTHOR: TURNER, J. HOWARD; ANDERSON, CARL L.

INSTITUTION CODE: BBB12347

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *CONTROLLE ENVIRONMENT; *COST EFFECTIVENESS; *FACILITY PLANNING; FAR MANAGEMENT; GUIDES; INSTRUCTIONAL MATERIALS; VOCATIONA AGRICULTURE; WATER RESOURCES; *IRRIGATION SYSTEMS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTIVE NOTE: 109P.

ISSUE: RIEMAR76

ABSTRACT: THE PUBLICATION, WITH THE AID OF TABLES AN COLORED ILLUSTRATIONS AND DIAGRAMS, PRESENTS INFORMATION T HELP THE FARMER WHO IS CONSIDERING THE INSTALLATION OF A IRRIGATION SYSTEM DETERMINE WHETHER OR NOT TO IRRIGATE, TH TYPE OF SYSTEM TO USE, AND THE IRRIGATION COST AND RETURN O INVESTMENT. INFORMATION IS PRESENTED ON THE INCREASE I YIELD TO BE EXPECTED, MANAGEMENT PRACTICES THAT WILL MAK IRRIGATION PROFITABLE, AND A COMPARISON OF THE DIFFEREN TYPES OF SYSTEMS. (NJ)

REPORT NUMBER: VT-102-109

AVAILABILITY: AMERICAN ASSOCIATION FOR VOCATIONA INSTRUCTIONAL MATERIALS, ENGINEERING CENTER, ATHENS, GEORGI 30602

INSTITUTION NAME: AMERICAN ASSOCIATION FOR VOCATIONA INSTRUCTIONAL MATERIALS, ATHENS, GA.

IRIS ACCESSION NUMBER: EW003457

ERIC ACCESSION NUMBER: ED113504

PUBLICATION DATE: DEC 74

TITLE: NATIONAL ENVIRONMENTAL MANPOWER PLANNING CONFERENCE.

INSTITUTION CODE: BBB12381; BBB12382

DESCRIPTOR: AIR POLLUTION CONTROL; COMMUNITY PLANNING; *ENVIRONMENTAL TECHNICIANS; *FEDERAL LEGISLATION; *FEDERAL PROGRAMS; *MANPOWER DEVELOPMENT; MANPOWER NEEDS; *PLANNIN MEETINGS; RESOURCES; STATE FEDERAL SUPPORT; STATEWIDE PLANNING; WASTE DISPOSAL; WATER POLLUTION CONTROL; *ENVIRONMENTAL PERSONNEL

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$9.51 PLUS POSTAGE

DESCRIPTIVE NOTE: 184P.; EDITED TRANSCRIPT OF THE PROCEEDINGS OF THE NATIONAL ENVIRONMENTAL MANPOWER PLANNING CONFERENCE (PHOENIX, ARIZONA, DECEMBER 8-11, 1974)

ISSUE: RIEMAR76

ABSTRACT: THE NATIONAL PLANNING CONFERENCE WAS HELD TO ACQUAINT STATE AND LOCAL ENVIRONMENTAL AGENCIES WITH AVAILABLE RESOURCES AND FEDERAL/STATE ACTIVITIES RELATED TO THE DEVELOPMENT AND UTILIZATION OF AN ENVIRONMENTAL WORKFORCE. THE 200 PARTICIPANTS AND 48 SPEAKERS REPRESENTED FEDERAL, STATE, LOCAL, AND PRIVATE AGENCIES AS WELL AS PROFESSIONAL ASSOCIATIONS, UNIVERSITIES, COLLEGES, COMMUNITY/JUNIOR COLLEGES, AND VOCATIONAL TECHNICAL SCHOOLS. MODERATOR FOR THE GENERAL SESSION WAS JAMES D. GOFF, ARIZONA DEPARTMENT OF HEALTH SERVICES. ROBERT G. RYAN SPOKE ON "SELECTED ENVIRONMENTAL LEGISLATION: MANPOWER IMPLICATIONS." PANEL PRESENTATIONS AND MODERATORS WERE: "MANPOWER IMPLICATIONS OF FEDERAL ENVIRONMENTAL PROGRAM STRATEGIES," FRANCIS J. LOSTUMBO; "HOW ENVIRONMENTAL NEEDS CAN BE MET THROUGH CETA (COMPREHENSIVE EMPLOYMENT AND TRAINING ACT)," JOHN ROPES; "PROGRESS REPORT ON UTILIZATION OF CETA," WILLIAM F. HAGAN; "UTILIZATION OF VOCATIONAL AND ADULT EDUCATION FUNDS," DAROLD E. ALBRIGHT; "UTILIZATION OF STATE PROGRAM GRANTS," CHESTER J. SHURA; "STATE TRAINING CENTERS--109(B) PROJECTS," JOHN L. COAKLEY, JR.; "STATE LEGISLATED TRAINING CENTERS," FRANKLIN J. AGARDY; "RECENT DEVELOPMENTS IN NATIONAL PROJECTS," GEORGE L. B. PRATT; "STATE REACTIONS TO FEDERAL PROGRAM STRATEGIES," CHRIS BECK; AND "GENERAL SESSION AND WRAP-UP," ROBERT KNOX. NEEDS, RESOURCES, AND PROBLEM AREAS WERE CONSIDERED BOTH IN THE PRESENTATIONS AND THE QUESTION AND ANSWER PERIODS FOLLOWING EACH SESSION. (EA)

INSTITUTION NAME: ENVIRONMENTAL CAREER CENTER, INC., WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF EDUCATION AND MANPOWER PLANNING.

IRIS ACCESSION NUMBER: EW003458

ERIC ACCESSION NUMBER: ED113149

PUBLICATION DATE: 74

TITLE: PRESERVING MAN'S ENVIRONMENT.

PERSONAL AUTHOR: PAVONI, JOSEPH L.; AND OTHERS

DESCRIPTOR: AIR POLLUTION CONTROL; *ECOLOGICAL FACTORS; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *LEARNING ACTIVITIES; RECYCLING; RESOURCE UNITS; SCIENCE EDUCATION; *SCIENCE UNITS; TEACHING GUIDES; *UNIT PLAN; WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTIVE NOTE: 308P.

ISSUE: RIEFEB76

ABSTRACT: THIS TEXT FOCUSES UPON ECOLOGY AND ENVIRONMENTAL SCIENCE. IT PROVIDES A THOROUGH INTRODUCTION TO THESE AREAS, AS WELL AS THE DIMENSION OF PRACTICAL APPLICATION TO THE CLASSROOM SITUATION. THE INTRODUCTORY SECTION DEALS WITH THE NEED TO BECOME AWARE OF ENVIRONMENTAL PROBLEMS, AS WELL AS PRESENTING A BRIEF SUMMARY OF THE SUCCEEDING CHAPTERS. THE TOPICS TREATED INCLUDE THE SPACESHIP EARTH CONCEPT, ECOLOGICAL PRINCIPLES, WATER QUALITY CONTROL, SOLID WASTE DISPOSAL, RECYCLING AND RESOURCE RECOVERY, AIR QUALITY CONTROL, NOISE POLLUTION, ENVIRONMENTAL IMPACT STATEMENTS, AND ENVIRONMENTAL LAW. THERE ARE TWO CHAPTERS DEVOTED TO EACH OF THESE NINE AREAS. THE FIRST CHAPTER PRESENTS AN EXTENSIVE DESCRIPTION OF THE ENVIRONMENTAL PROBLEM; THE SECOND CHAPTER IS A COMPREHENSIVE TEACHING UNIT, BROKEN DOWN INTO SEVEN SECTIONS. THERE IS A BRIEF INTRODUCTION TO EACH TOPIC, STRESSING ITS IMPORTANCE, FOLLOWED BY THE OBJECTIVES OF THE UNIT. THE CONTENT, ACTIVITIES, AND EXPERIMENTS ARE GIVEN, AND THE UNITS ARE DIVIDED INTO BASIC AND ADVANCED SECTIONS; THE FORMER APPROPRIATE FOR JUNIOR HIGH SCHOOL; THE LATTER INTENDED FOR SENIOR HIGH SCHOOL AND UNDERGRADUATE COLLEGE CURRICULA. THE EVALUATION AREA PRESENTS POSSIBLE OBJECTIVE AND ESSAY QUESTIONS. A DETAILED ACCOUNT OF RELEVANT SOURCES, INCLUDING BOOKS, PERIODICALS, PAMPHLETS, FILMS, FILMSTRIPS, AND GAMES, IS LISTED AT THE END OF EACH UNIT. (BP)

AVAILABILITY: DATA COURIER, INC., 620 SOUTH FIFTH STREET, LOUISVILLE, KENTUCKY 40202 (LIST PRICE $13.95; EDUCATIONAL DISCOUNT PRICE $11.95)

IRIS ACCESSION NUMBER: EW003459

ERIC ACCESSION NUMBER: ED113145

PUBLICATION DATE: JUL 75

TITLE: OAHU, HAWAII'S WATER SUPPLY: 1848-2020 A.D.

PERSONAL AUTHOR: FELIX, JOHN HENRY

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); DOCTORAL THESES; *ECOLOGICAL FACTORS; ENVIRONMENT; *NATURAL RESOURCES; RECYCLING; RESOURCE MATERIALS; *WATER POLLUTION CONTROL; *WATER RESOURCES; HAWAII; RESEARCH REPORTS

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$18.40 PLUS POSTAGE

DESCRIPTIVE NOTE: 370P.; PH.D. DISSERTATION, WALDEN UNIVERSITY

ISSUE: RIEFEB76

ABSTRACT: DEMAND PROJECTIONS INDICATE THAT OAHU'S NATURAL GROUND WATER SUPPLY WILL BE FULLY DEVELOPED BY THE YEAR 2000. SUPPLEMENTARY WATER RESOURCES WILL NEED TO BE DEVELOPED IN KEEPING WITH THE GROWTH OF THE ECONOMY AND POPULATION. THE AUTHOR, CHAIRMAN OF THE HONOLULU BOARD OF WATER SUPPLY, AUTHORITATIVELY DISCUSSES TYPES OF GROUND WATER IN HAWAII, AND AREAS OF INTEREST IN WATER DEVELOPMENT THROUGHOUT THE ISLANDS. THIS IS FOLLOWED BY AN IN-DEPTH HISTORICAL ACCOUNTING OF OAHU'S WATER SUPPLY SYSTEM. THE PRESENT WATER RESOURCES, POPULATION, LAND USE SITUATION, AND PROJECTS FOR THE FUTURE ARE EXAMINED. THE BOARD OF WATER SUPPLY, WHICH HAS AMPLY PROVIDED OAHU WITH HIGH QUALITY WATER, HAS CARRIED OUT ITS RESPONSIBILITIES INEFFICIENTLY. MANAGEMENT, IN TERMS OF UTILIZING COMPUTER TECHNOLOGY, IS INDICATED TO DEAL WITH INCREASING PROBLEMS. THE ISSUE OF WHETHER TO COMBINE WATER SUPPLY OPERATIONS WITH SEWERAGE FUNCTIONS IS PRESENTED. INSTITUTIONAL RESPONSES TO WATER SUPPLY NEEDS, DESALINATION, WATER RECYCLING AND TREATMENT, AND ENERGY ARE OTHER TOPICS THOROUGHLY TREATED. ALTHOUGH TECHNOLOGICAL INNOVATIONS CAN BE USED TO INCREASE SUPPLY, SPECIFIC DEVELOPMENT PROJECTS, CONSERVATION MEASURES, AND INSTITUTIONAL REFORM ARE RECOMMENDED TO MEET OAHU'S WATER SUPPLY NEEDS BEYOND THE YEAR 2020. AN EXTENSIVE BIBLIOGRAPHY OF PUBLISHED AND UNPUBLISHED MATERIALS IS INCLUDED. (BP)

IRIS ACCESSION NUMBER: EW003460

ERIC ACCESSION NUMBER: ED112246

PUBLICATION DATE: 73

TITLE: LAND USE. AN INSTRUCTIONAL UNIT FOR TEACHERS OF ADULT VOCATIONAL EDUCATION IN AGRICULTURE.

PERSONAL AUTHOR: WISE, JACK; IVERSON, MAYNARD J.

INSTITUTION CODE: LBY41707

SPONSORING AGENCY CODE: LBY41580

DESCRIPTOR: ADULT FARMER EDUCATION; *ADULT VOCATIONAL EDUCATION; *AGRICULTURE; CONSERVATION EDUCATION; COURSE CONTENT; *INSTRUCTIONAL MATERIALS; *LAND USE; LEARNING ACTIVITIES; LESSON PLANS; NATURAL RESOURCES; SOIL CONSERVATION; SOIL SCIENCE; *TEACHING GUIDES; TRANSPARENCIES; UNIT PLAN; VOCATIONAL AGRICULTURE; WATER RESOURCES; KENTUCKY

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$8.24 PLUS POSTAGE

DESCRIPTIVE NOTE: 160P.; FOR RELATED DOCUMENTS, SEE CE 005 271-282; PHOTOGRAPHS MAY NOT REPRODUCE IN MICROFICHE

ISSUE: RIEFEB76

ABSTRACT: AN ADULT FARMER COURSE DESIGNED TO DEVELOP THE EFFECTIVE ABILITY OF LAND HOLDERS TO PLAN FOR AND IMPLEMENT WISE LAND USE IS PRESENTED. THE UNIT CONSISTS OF EIGHT LESSON PLANS: (1) THE IMPORTANCE OF LAND USE, (2) THE PHYSICAL AND CHEMICAL PROPERTIES OF THE SOIL, (3) SOIL TESTING AS A TOOL OF LAND USE, (4) BALANCED FERTILIZATION OF SOILS, (5) SELECTION OF PRODUCTIVE CROP AND/OR LIVESTOCK PROGRAMS BASED ON WISE LAND USE, (6) SOIL AND WATER CONSERVATION, (7) SOIL AND WATER MANAGEMENT FOR RURAL USE, AND (8) SOIL WATER MANAGEMENT FOR URBAN USE. MASTERS FOR TRANSPARENCIES ARE INCLUDED FOR EACH LESSON. IN ADDITION, A TEACHING PLAN FOR THE COURSE AND OTHER PLANNING FORMS ARE APPENDED. (VA)

REPORT NUMBER: VT-102-050

INSTITUTION NAME: KENTUCKY UNIV., LEXINGTON. DIV. OF VOCATIONAL EDUCATION.

SPONSORING AGENCY NAME: KENTUCKY STATE DEPT. OF EDUCATION, FRANKFORT. BUREAU OF VOCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003461

PUBLICATION DATE: JUL 75

TITLE: PROCEEDINGS-CONFERENCE ON WATER CONSERVATION AND SEWAGE FLOW REDUCTION WITH WATER-SAVING DEVICES.

DESCRIPTOR: CONFERENCES; *CONSERVATION; COST EFFECTIVENESS; EQUIPMENT; LAND USE; *ONSITE SYSTEMS; POLLUTION; PUBLIC HEALTH; *RECYCLING; *SEWAGE; *TECHNOLOGY; *WASTE DISPOSAL; *WATER CONSERVATION; *WATER POLLUTION CONTROL; WATER QUALITY; *WATER RESOURCES; WATER TREATMENT

DESCRIPTIVE NOTE: 216P.

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT A CONFERENCE ON WATER CONSERVATION AND SEWAGE FLOW REDUCTION HELD IN 1975. THESE PROCEEDINGS ARE A CURRENT STATE-OF-THE-ART ASSESSMENT OF WATER-SAVING DEVICE TECHNOLOGY IN THE U.S. THE PAPERS ADDRESS THEMSELVES TO THE MAJOR QUESTIONS ASSOCIATED WITH EQUIPMENT DEVELOPMENT AND USE. TOPIC AREAS INCLUDE: (1) COST EFFECTIVENESS RELATIONSHIPS; (2) ONSITE SYSTEMS; (3) SOCIOECONOMIC CONSIDERATIONS; AND (4) IMPACTS ON THE WATER INDUSTRY. EACH PAPER CONTAINS AN ABSTRACT AND A LIST OF REFERENCES. (CS)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.25)

INSTITUTION NAME: INSTITUTE FOR RESEARCH ON LAND AND WATER RESOURCES, PENNSYLVANIA STATE UNIVERSITY.

IRIS ACCESSION NUMBER: EW003462

ERIC ACCESSION NUMBER: ED110305

PUBLICATION DATE: AUG 72

TITLE: TECHNICAL REPORT BIBLIOGRAPHY.

PERSONAL AUTHOR: HOFFNAGLE, GALE F.

INSTITUTION CODE: BBB09453

DESCRIPTOR: *ABSTRACTS; AIR POLLUTION CONTROL; *BIBLIOGRAPHIES; *ENVIRONMENT; *MILITARY ORGANIZATIONS; POLLUTION; PUBLIC HEALTH; RADIATION; REPORTS; *TECHNICAL REPORTS; WATER POLLUTION CONTROL; NOISE

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTIVE NOTE: 147P.

ISSUE: RIEDEC75

ABSTRACT: A BIBLIOGRAPHY OF ALL UNCLASSIFIED TECHNICAL REPORTS PREPARED BY USAF ENVIRONMENTAL HEALTH LABORATORY, MCCLELLAN IS PRESENTED. IT CONTAINS A LISTING BY SUBJECT MATTER AND A LISTING OF ALL REPORTS BY YEAR WITH REPORT NUMBER AND ABSTRACT. THE REPORTS COVER MOST AREAS OF ENVIRONMENTAL TOPICS SUCH AS AIR, WATER, NOISE, AND RADIATION POLLUTION. (NTIS)

REPORT NUMBER: AD-751-898; EHL-M-72M-14

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22151 (AD-751 898, PC-$3.00, MF-$2.25)

INSTITUTION NAME: ENVIRONMENTAL HEALTH LAB., MCCLELLAN AFB, CALIF.

IRIS ACCESSION NUMBER: EW003463

ERIC ACCESSION NUMBER: ED109486

PUBLICATION DATE: 75

TITLE: SELECTED REFERENCES AND AIDS FOR TEACHING AGRICULTURAL MECHANICS TO STUDENTS OF AGRICULTURAL EDUCATION.

PERSONAL AUTHOR: MAZZUCCO, APRIL

INSTITUTION CODE: BBB00551; BBB06496

DESCRIPTOR: *AGRICULTURAL EDUCATION; *AGRICULTURAL ENGINEERING; AGRICULTURAL MACHINERY; AGRICULTURAL SAFETY; *ANNOTATED BIBLIOGRAPHIES; AUDIOVISUAL AIDS; CONSTRUCTION (PROCESS); DRAFTING; ELECTRICITY; MAINTENANCE; METALLURGY; POWER MECHANICS; *REFERENCE MATERIALS; RESOURCE GUIDES; SHEET METAL WORK; SOIL CONSERVATION; *VOCATIONAL AGRICULTURE; WATER RESOURCES; WELDING

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$3.32 PLUS POSTAGE

DESCRIPTIVE NOTE: 57P.

ISSUE: RIEDEC75

ABSTRACT: THE BOOKLET LISTS REFERENCES AND MATERIALS INTENDED FOR BOTH THE STUDENT AND THE TEACHER OF AGRICULTURAL MECHANICS. THE MATERIALS ARE GROUPED UNDER NINE TOPICS: AGRICULTURAL SHOP; METALWORK AND WELDING; AGRICULTURAL MACHINERY; AGRICULTURAL POWER; DRAWING, CONSTRUCTION, AND MAINTENANCE; ELECTRICITY; WATER MANAGEMENT, SOIL AND WATER CONSERVATION; GENERAL REFERENCES; AND SAFETY. WITHIN EACH CATEGORY, THE ITEMS ARE FURTHER DIVIDED INTO: COMMERCIAL OR INDUSTRIAL PUBLICATIONS; BULLETINS AND CIRCULARS; AUDIOVISUAL AIDS; AND TEXTBOOKS. EACH CITATION INCLUDES THE FOLLOWING INFORMATION: AUTHOR, TITLE, NUMBER OF PAGES, DATE, PRICE (IN 1973), PUBLISHER OR SOURCE (WITH ADDRESS), AND A BRIEF ANNOTATION. (PR)

REPORT NUMBER: AM-7

INSTITUTION NAME: VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. AGRICULTURAL EDUCATION PROGRAM.; VIRGINIA STATE DEPT. OF EDUCATION, RICHMOND. DIV. OF VOCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003464

ERIC ACCESSION NUMBER: ED108882

PUBLICATION DATE: 75

TITLE: INTRODUCTION TO MONITORING AND SURVEILLANCE OF THE ENVIRONMENT.

PERSONAL AUTHOR: CHAMPLIN, ROBERT L.; AND OTHERS

INSTITUTION CODE: BBB11910

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; INSTRUMENTATION; MEASUREMENT; PESTICIDES; *POLLUTION; RESEARCH; SCIENTIFIC RESEARCH; TEACHING GUIDES; *WATER POLLUTION CONTROL; *MONITORING

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$18.40 PLUS POSTAGE

DESCRIPTIVE NOTE: 359P.; OCCASIONAL SMALL PRINT USED IN CHARTS. GRANT NUMBER T 960 142-02-1

ISSUE: RIENOV75

ABSTRACT: THIS TEXT ON MONITORING AND SURVEILLANCE IS INTENDED FOR THE UNDERGRADUATE COLLEGE STUDENT AND THE PROFESSIONAL TECHNICIAN. THE MATERIALS CONTAINED WITHIN THE BOOK ARE PRESENTED FROM BOTH A PRACTICAL AND PHILOSOPHICAL STANDPOINT. THE "REASON FOR" AND THE "HOW TO" ARE EXAMINED WITHIN EACH SECTION, INCLUDING PROBLEMS AT THE END OF EACH CHAPTER WHICH REQUIRE WORK IN THE FIELD, EITHER IN MAKING ACTUAL MEASUREMENTS OR IN WORKING WITH THE PROFESSIONALS WHO MAKE MEASUREMENTS. THE TEXT INCLUDES FOUR SECTIONS. SECTION I, GENERAL CONSIDERATIONS, LOOKS AT POLLUTION, MONITORING AND SURVEILLANCE SYSTEMS, SAMPLING, DATA ANALYSIS AND PRESENTATION, AND FUNDAMENTALS OF ELECTRICITY, ELECTRONICS, AND INSTRUMENTATION. SECTION II, THE WATER ENVIRONMENT, EXAMINES PROPERTIES OF THE WATER ENVIRONMENT, LEGAL AND ADMINISTRATIVE REQUIREMENTS, PARAMETER SIGNIFICANCE AND VARIATION, MONITORING, ROBOT SURVEILLANCE NETWORKS, AND AVAILABLE WATER DATA. SECTION III, THE AIR ENVIRONMENT, COVERS METEOROLOGY, PARAMETERS OF THE AIR ENVIRONMENT, VARIATIONS IN TIME AND SPACE, MONITORING TECHNIQUES, AND SURVEILLANCE NETWORKS. THE FINAL SECTION, PESTICIDES, LOOKS AT THE OCCURRENCE AND DETECTION OF ORGANIC PESTICIDES IN THE ENVIRONMENT. A LISTING OF LITERATURE CITED COMPLETES THE TEXT. (TK)

INSTITUTION NAME: WYOMING UNIV., LARAMIE. DEPT. OF CIVIL AND ARCHITECTURAL ENGINEERING.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003465

ERIC ACCESSION NUMBER: ED107496

PUBLICATION DATE: 75

TITLE: WATER POLLUTION, ENVIRONMENTAL SCIENCE CURRICULUM GUIDE SUPPLEMENT.

PERSONAL AUTHOR: MCKENNA, HAROLD J.

INSTITUTION CODE: QPX14625

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: CURRICULUM DEVELOPMENT; *CURRICULUM GUIDES; ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *GRADE 9; INSTRUCTIONAL MATERIALS; *JUNIOR HIGH SCHOOLS; LEARNING ACTIVITIES; LESSON PLANS; POLLUTION; SCIENCE EDUCATION; TEACHING GUIDES; *WATER POLLUTION CONTROL; WATER RESOURCES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 78P.; A RELATED DOCUMENT IS SE 019 058

ISSUE: RIEOCT75

ABSTRACT: THIS CURRICULUM GUIDE IS A 40-DAY UNIT PLAN ON WATER POLLUTION DEVELOPED, IN PART, FROM THE NATIONAL SCIENCE FOUNDATION ENVIRONMENTAL SCIENCE INSTITUTES' NINTH GRADE ENVIRONMENTAL SCIENCE CURRICULUM GUIDE. THIS UNIT CONTAINS TEACHER LESSON PLANS, SUGGESTED TEACHER AND STUDENT MODULES, CASE STUDIES, AND ACTIVITIES TO BE DEVELOPED BY TEACHERS INTERESTED IN WATER POLLUTION. AMONG THE TOPICS DISCUSSED ARE: WHAT IS WATER? WHY IS WATER IMPORTANT? HOW DO WE USE WATER? WHERE DOES WATER COME FROM? WHAT IS WATER POLLUTION? WHAT ARE THE CHEMICAL AND PHYSICAL ASPECTS OF WATER POLLUTION? WHAT ARE THE BIOLOGICAL ASPECTS OF WATER POLLUTION? WHAT ARE THE SOURCES OF POLLUTION? WHAT ARE SOME POLLUTION DISASTERS? WHAT ARE THE FINANCIAL EFFECTS OF POLLUTION? EACH STUDENT MODULE CONTAINS A STATEMENT OF PURPOSE, IMPLEMENTERS OR MATERIALS, PREREQUISITE SKILLS, INSTRUCTIONAL OBJECTIVES, DIAGNOSTIC PRETEST, MODULAR PROGRAM, AND EVALUATIVE POSTTEST. (BT)

AVAILABILITY: DR. HAROLD J. MCKENNA, DIRECTOR, ENVIRONMENTAL STUDIES PROGRAM, THE CITY COLLEGE OF NEW YORK, KLAPPER HALL, ROOM 104, NEW YORK, NEW YORK 10031 ($5.00); ERIC/SMEAC, THE OHIO STATE UNIVERSITY, 400 LINCOLN TOWER, COLUMBUS, OHIO 43210 (ON LOAN)

INSTITUTION NAME: CITY UNIV. OF NEW YORK, N.Y. CITY COLL.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003466

ERIC ACCESSION NUMBER: ED107476

PUBLICATION DATE: 30 APR 73

TITLE: WISCONSIN'S LAKE SUPERIOR BASIN WATER QUALITY STUDY. TECHNICAL REPORT NO. 1.

PERSONAL AUTHOR: DICKAS, ALBERT B., ED.

INSTITUTION CODE: BBB11306; BBB11307

SPONSORING AGENCY CODE: BBB03715

DESCRIPTOR: CONSERVATION (ENVIRONMENT); *ENVIRONMENT; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL RESEARCH; NATURAL RESOURCES; *PUBLIC AFFAIRS EDUCATION; *WATER POLLUTION CONTROL; *WATER RESOURCES; *LAKE SUPERIOR; RESEARCH REPORTS; WISCONSIN; *LAKES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 200P.; MARGINAL LEGIBILITY. FOR THE SUPPLEMENT, SEE SE 018 427

ISSUE: RIEOCT75

ABSTRACT: THIS HYDROLOGIC STUDY FOCUSES ON WISCONSIN'S LAKE SUPERIOR BASIN. WATER IS THE MOST IMPORTANT NATURAL RESOURCE IN THIS AREA WHICH INCLUDES DOUGLASS, BAYFIELD, ASHLAND, AND IRON COUNTIES. THIS STUDY WAS UNDERTAKEN TO DETERMINE THE CHARACTER OF THIS HYDROLOGIC BASE AND TO DETERMINE THE EFFECTS AND EXTENT OF MAN-INFLUENCED DISTURBANCES. IT INCLUDES AN INTRODUCTION, OBJECTIVES, FIELD SAMPLING AND LABORATORY ANALYSIS TECHNIQUES, A DISCUSSION OF INDIVIDUAL CONTROL BASIN CHARACTERISTICS, A RESUME, FUTURE PROJECTIONS, A PUBLIC EDUCATION PROGRAM, AND APPENDICES. THE OBJECTIVES OF THE STUDY ARE THE COMPILATION OF PERTINENT LITERATURE, A HYDROLOGIC AND TOPOGRAPHIC ANALYSIS, A STUDY OF THE PRESENT STATUS AND FUTURE PREDICTIONS, A MEASUREMENT OF WASTE WATER ASSIMILATION, AND THE DEVELOPMENT OF A PUBLIC EDUCATION PROGRAM. USING BOTH FIELD AND LABORATORY TECHNIQUES, SUCH FACTORS AS STREAM DISCHARGE, PH, AND NITRATES WERE EXAMINED. IT WAS FOUND THAT IN BOTH THE EASTERN AND WESTERN SECTORS OF THE BASIN, THE WASTES SHOWED AN ABOVE AVERAGE BACTERIA COUNT, WITH MOST OTHER FACTORS TESTING ABOVE MINIMUM STANDARDS. A PUBLIC EDUCATION PROGRAM HAS BEEN INCLUDED TO PROMOTE PUBLIC UNDERSTANDING IN LIGHT OF THE PRESENT CONDITIONS AND THE POPULATION, RECREATIONAL, AND INDUSTRIAL PRESSURES WHICH WILL SHAPE THE HYDROLOGIC FUTURE OF THE AREA. (TK)

AVAILABILITY: ERIC/SMEAC, THE OHIO STATE UNIVERSITY, 400 LINCOLN TOWER, COLUMBUS, OHIO 43210 (ON LOAN)

INSTITUTION NAME: NORTHLAND COLL., ASHLAND, WIS. SIGURD OLSON INST. OF ENVIRONMENTAL STUDIES.; WISCONSIN UNIV., SUPERIOR. CENTER FOR LAKE SUPERIOR ENVIRONMENTAL STUDIES.

SPONSORING AGENCY NAME: BUREAU OF HIGHER EDUCATION (DHEW/OE), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003467

ERIC ACCESSION NUMBER: ED106960

PUBLICATION DATE: MAR 72

TITLE: FLUORIDATION BIBLIOGRAPHY: REFERENDUMS, PUBLIC PARTICIPATION IN DECISION-MAKING, AND METHODOLOGIES FOR ATTITUDE PERCEPTION STUDIES. EXCHANGE BIBLIOGRAPHY NO. 268.

PERSONAL AUTHOR: MITCHELL, BRUCE

INSTITUTION CODE: BBB03813

DESCRIPTOR: ATTITUDES; *BIBLIOGRAPHIES; CITIZEN PARTICIPATION; *CONFLICT; DECISION MAKING; DENTAL HEALTH; PUBLIC HEALTH; *UTILITIES; *WATER RESOURCES; CANADA; *FLUORIDATION

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.95 PLUS POSTAGE

DESCRIPTIVE NOTE: 28P.

ISSUE: RIEOCT75

ABSTRACT: THIS BIBLIOGRAPHY HAS BEEN COMPILED AS A RESULT OF A LARGE STUDY FOCUSING ON THE BEHAVIORAL ASPECTS OF FLUORIDATION WITHIN A CANADIAN CONTEXT. THE BIBLIOGRAPHY IS DIVIDED INTO THREE SECTIONS. THE FIRST SECTION, ENTITLED BACKGROUND, PRESENTS A VARIETY OF REFERENCES THAT PROVIDE INSIGHTS INTO THE DEBATES ABOUT FLUORIDATION IN THE UNITED STATES AND OTHER NATIONS. THE BEHAVIORAL ASPECTS SECTION CONTAINS REFERENCES OF TWO BASIC TYPES: (1) ARTICLES BY BEHAVIORAL AND SOCIAL SCIENTISTS THAT CONSIDER THE PERCEPTIONS, ATTITUDES, AND BEHAVIOR OF PEOPLE, IMPLICITLY OR EXPLICITLY, IN REGARD TO FLUORIDATION OF PUBLIC WATER SUPPLIES; AND (2) A NUMBER OF ARTICLES THAT DESCRIBE THE BEHAVIOR OF PEOPLE IN VARIOUS FLUORIDATION ISSUES. THE THIRD SECTION, CANADIAN ASPECTS, ATTEMPTS TO PROVIDE SOURCES THAT DOCUMENT THE DIFFUSION OF FLUORIDATION IN CANADA AS WELL AS ASSOCIATED DISCUSSIONS AND DEBATES. (AUTHOR/MLF)

AVAILABILITY: COUNCIL OF PLANNING LIBRARIANS, P.O. BOX 229, MONTICELLO, ILLINOIS 61856 ($2.50)

INSTITUTION NAME: COUNCIL OF PLANNING LIBRARIANS, MONTICELLO, ILL.

IRIS ACCESSION NUMBER: EW003468

ERIC ACCESSION NUMBER: ED106959

PUBLICATION DATE: MAR 72

TITLE: BENEFIT-COST ANALYSIS: A SELECT BIBLIOGRAPHY. EXCHANGE BIBLIOGRAPHY NO. 267.

PERSONAL AUTHOR: MITCHELL, BRUCE; MITCHELL, JOAN

INSTITUTION CODE: BBB03813

DESCRIPTOR: *BIBLIOGRAPHIES; CITY PLANNING; *COST EFFECTIVENESS; INTEREST; *PLANNING; RECREATION; REGIONAL PLANNING; RESOURCES; *THEORIES; TRANSPORTATION; WATER RESOURCES; *MANAGEMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.95 PLUS POSTAGE

DESCRIPTIVE NOTE: 46P.

ISSUE: RIEOCT75

ABSTRACT: THE PURPOSE OF THIS BIBLIOGRAPHY IS TO PRESENT A RANGE OF SOURCES THAT WILL PROVIDE GUIDELINES TO BOTH THEORETICAL AND APPLIED ASPECTS OF BENEFIT-COST ANALYSIS. THE BIBLIOGRAPHY IS DIVIDED INTO TWO PRINCIPAL SECTIONS, WITH SUBSECTIONS AND CATEGORIES IN EACH. THE FIRST SECTION, ENTITLED BACKGROUND, PROVIDES INTRODUCTORY AND CONCEPTUAL REFERENCES TO THE TECHNIQUE. THE FIRST SUBSECTION (BENEFIT-COST ANALYSIS) HAS CATEGORIES OF INTRODUCTION, BACKGROUND, DISCOUNTING AND INTEREST RATES, AND FURTHER CONSIDERATIONS. THE FOLLOWING SUBSECTION (COST-EFFECTIVENESS ANALYSIS) HAS CATEGORIES OF INTRODUCTION AND APPLICATION. THE SECOND, OR APPLICATIONS SECTION, INCLUDES SIX SUBSECTIONS COVERING PROBLEMS OF INTEREST TO PLANNERS: (1) REGIONAL PLANNING AND RESOURCES MANAGEMENT, (2) URBAN, (3) TRANSPORTATION, (4) HUMAN RESOURCES, (5) RECREATION, AND (6) WATER. (AUTHOR/MLF)

AVAILABILITY: COUNCIL OF PLANNING LIBRARIANS, P.O. BOX 229, MONTICELLO, ILLINOIS 61856 ($4.50)

INSTITUTION NAME: COUNCIL OF PLANNING LIBRARIANS, MONTICELLO, ILL.

IRIS ACCESSION NUMBER: EW003469

ERIC ACCESSION NUMBER: ED106575

PUBLICATION DATE: 73

TITLE: EXPLORING CAREERS IN ENVIRONMENTAL PROTECTION.

INSTITUTION CODE: RUF14400

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER EDUCATION; CAREER PLANNING; *CONSERVATION (ENVIRONMENT); *CURRICULUM GUIDES; ECOLOGY; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL TECHNICIANS; GRADE 9; GRADE 10; HIGH SCHOOL CURRICULUM; LEARNING ACTIVITIES; *OCCUPATIONAL INFORMATION; POLLUTION; SECONDARY EDUCATION; TEACHING METHODS; VOCATIONAL DEVELOPMENT; WASTE DISPOSAL; WATER POLLUTION CONTROL; *CAREER EXPLORATION

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$4.43 PLUS POSTAGE

DESCRIPTIVE NOTE: 90P.; FOR RELATED DOCUMENTS SEE CE 003 746, CE 003 748-64 AND CE 004 312; REVISED EDITION

ISSUE: RIEOCT75

ABSTRACT: THE CAREER EXPLORATION PROGRAM FOR GRADES 9 THROUGH 10, AS PART OF A COMPREHENSIVE K-10 CAREER DEVELOPMENT PROGRAM, ATTEMPTS TO DEVELOP AN AWARENESS OF AND APPRECIATION FOR WORK, EXTEND KNOWLEDGE OF THE VARIETY OF CAREER OPPORTUNITIES, AND PROVIDE EXPERIENCES IN CAREER AREAS OF INDIVIDUAL INTEREST. THE DOCUMENT, A COLLECTION OF MATERIALS CONSISTING OF STUDENT LEARNING EXPERIENCE PACKETS, A RESOURCE LIST, AND TEACHING STRATEGIES, IS DESIGNED TO INTRODUCE THE STUDENTS TO OCCUPATIONS IN ENVIRONMENTAL PROTECTION. THE COURSE IS DESIGNED FOR STUDENTS TO: GATHER INFORMATION REGARDING JOBS; EVALUATE CAREERS; DEVELOP STANDARDS OF BEHAVIOR FOR EFFECTIVE JOB PERFORMANCE; LOCATE PLACES OF EMPLOYMENT; PARTICIPATE IN LABORATORY EXPERIENCES; AND TO INVESTIGATE JOB REQUIREMENTS. THE ACTIVITY PACKETS EXPLORE CAREERS IN: (1) NOISE POLLUTION CONTROL, (2) WATER POLLUTION CONTROL, (3) SOLID WASTE DISPOSAL, (4) AIR POLLUTION CONTROL, (5) FOOD CONTAMINATION CONTROL, (6) RADIATION AND DECONTAMINATION CONTROL, AND (7) PARK AND RECREATIONAL LAND MANAGEMENT. THE LEARNING ACTIVITIES INVOLVE INDIVIDUALIZED LESSONS, ROLE-PLAYING, FIELD TRIPS, SIMULATION, GROUP WORK, REPORTS, COMMUNITY COORDINATION OF RESOURCE PERSONS AND STUDENTS, EVALUATION, SELF-ANALYSIS TESTS, AND DISCUSSIONS. THE APPENDIX CONTAINS SUGGESTED PROCEDURES FOR FIELD TRIPS, EXPLORATION TRIPS, SAMPLE FORMS FOR PERMISSION AND REPORTS, GAMES AND SIMULATIONS, A GROUP WORK EXERCISE, AND A LIST OF RELATED FILMS. (JB)

INSTITUTION NAME: CINCINNATI PUBLIC SCHOOLS, OHIO.

IRIS ACCESSION NUMBER: EW003470

ERIC ACCESSION NUMBER: ED104704

PUBLICATION DATE: 74

TITLE: METRO-APEX VOLUME 8.1: WATER QUALITY MANAGER'S MANUAL. REVISED.

INSTITUTION CODE: BBB08928

SPONSORING AGENCY CODE: BBB11603

DESCRIPTOR: *CITY PROBLEMS; COMPUTER ASSISTED INSTRUCTION; *COMPUTER PROGRAMS; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; GAMES; *HIGHER EDUCATION; MANAGEMENT GAMES; POLLUTION; PROFESSIONAL TRAINING; ROLE PLAYING; SIMULATED ENVIRONMENT; *SIMULATION; *URBAN ENVIRONMENT; WATER POLLUTION CONTROL; COMEX PROJECT; *ENVIRONMENTAL MANAGEMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$4.43 PLUS POSTAGE

DESCRIPTIVE NOTE: 100P.; RELATED DOCUMENTS USED IN METRO-APEX 1974 ARE SE 018 975 - 995. BEST COPY AVAILABLE; OCCASIONAL MARGINAL LEGIBILITY

ISSUE: RIEAUG75

ABSTRACT: THE WATER QUALITY MANAGER'S MANUAL IS ONE OF A SET OF TWENTY-ONE MANUALS USED IN METRO-APEX 1974, A COMPUTERIZED COLLEGE AND PROFESSIONAL LEVEL, COMPUTER-SUPPORTED, ROLE-PLAY, SIMULATION EXERCISE OF A COMMUNITY WITH "NORMAL" PROBLEMS. STRESS IS PLACED ON ENVIRONMENTAL QUALITY CONSIDERATIONS. APEX 1974 IS AN EXPANSION OF APEX--AIR POLLUTION EXERCISE (ED 064 530-550; ED 075 261; ED 081 619), AND INCLUDES ROLES FOR AN ENVIRONMENTAL QUALITY AGENCY, WATER QUALITY MANAGER, SOLID WASTE MANAGER, AND VARIOUS PRESSURE GROUPS, IN ADDITION TO THE PREVIOUSLY DEVELOPED ROLES OF CITY AND COUNTY POLITICIANS, CITY AND COUNTY PLANNERS, AIR POLLUTION CONTROL OFFICE, DEVELOPERS, INDUSTRIALISTS AND NEWSPAPER. TWO INDUSTRIES HAVE BEEN ADDED, AS HAVE A NUMBER OF PROGRAM OPTIONS. THE PARTICIPANTS MAY RANGE IN NUMBER FROM 17 TO 100. EACH RUN OF THE GAME SHOULD CONSIST OF AT LEAST THREE CYCLES (SIMULATED YEARS), THE OPTIMUM BEING FIVE CYCLES. EACH CYCLE SHOULD SPAN AT LEAST A THREE-HOUR PERIOD. A CYCLE IS COMPOSED OF TWO MAJOR PHASES: THE FIRST IS THE GAME SIMULATION; IN THE SECOND PHASE, DECISIONS EMERGING OUT OF THE GAME SIMULATION ARE ANALYZED BY A COMPUTERIZED SYSTEM OF INTEGRATED SIMULATION MODELS. THE METRO-APEX COMPUTER PROGRAM IS IN FORTRAN IV AND RUNS ON AN IBM 360-50 OR HIGHER SERIES COMPUTER. (BT)

AVAILABILITY: THE METRO-APEX COMPUTER PROGRAM DESCRIBED IN THIS ABSTRACT IS AVAILABLE FROM COMEX PROJECT, THE JOHN AND ALICE TYLER BUILDING, 3601 SOUTH FLOWER STREET, LOS ANGELES, CALIFORNIA 90007

INSTITUTION NAME: UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. COMEX RESEARCH PROJECT.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, N.C. CONTROL PROGRAMS DEVELOPMENT DIV.

IRIS ACCESSION NUMBER: EW003471

ERIC ACCESSION NUMBER: ED147195

PUBLICATION DATE: 77

TITLE: SELF-MONITORING PROCEDURES: BASIC PARAMETERS FOR MUNICIPAL EFFLUENTS. STUDENT REFERENCE MANUAL.

INSTITUTION CODE: BBB13327

DESCRIPTOR: COURSE CONTENT; *EDUCATIONAL PROGRAMS; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LABORATORY EQUIPMENT; LABORATORY TECHNIQUES; *POLLUTION; POST SECONDARY EDUCATION; SKILL DEVELOPMENT; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS; *MONITORING

EDRS PRICE: EDRS PRICE MF-$1.16 HC-$31.47 PLUS POSTAGE.

DESCRIPTIVE NOTE: 588P.; FOR RELATED DOCUMENTS, SEE SE 023 377-383

ISSUE: RIEAPR78

ABSTRACT: THIS IS ONE OF SEVERAL SHORT-TERM COURSES DEVELOPED TO ASSIST IN THE TRAINING OF WASTE WATER TREATMENT PLANT OPERATIONAL PERSONNEL IN THE TESTS, MEASUREMENTS, AND REPORT PREPARATION REQUIRED FOR COMPLIANCE WITH THEIR NPDES PERMITS. THE STUDENT REFERENCE MANUAL PROVIDES STEP-BY-STEP PROCEDURES FOR LABORATORY APPLICATION OF EQUIPMENT OPERATING PROCEDURES FOR EFFLUENT MONITORING. EACH LESSON OUTLINES A SPECIFIC OBJECTIVE, DESCRIPTION OF THE ANALYSIS, AND THE APPLICABILITY OF THE PROCEDURE. PARAMETERS OF THIS COURSE INCLUDE BOD, PH, FECAL COLIFORM, RESIDUAL CHLORINE, SUSPENDED SOLIDS, AND OPEN CHANNEL FLOW. (CS)

REPORT NUMBER: EPA-430-1-77-003

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003472

ERIC ACCESSION NUMBER: ED160458

PUBLICATION DATE: 76

TITLE: HOW TO IDENTIFY AND CONTROL WATER WEEDS AND ALGAE.

INSTITUTION CODE: BBB16027

DESCRIPTOR: AGRICULTURE; *BOTANY; ENVIRONMENT; *HERBICIDES; *INSTRUCTIONAL MATERIALS; PESTICIDES; *POSTSECONDARY EDUCATION; SCIENCES; WATER POLLUTION CONTROL; *WATER RESOURCES; *WEEDS; *ALGAE

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 66P.; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; COLORED PHOTOGRAPHS WILL NOT REPRODUCE WELL

ISSUE: RIEFEB79

ABSTRACT: INCLUDED IN THIS GUIDE TO WATER MANAGEMENT ARE GENERAL DESCRIPTIONS OF ALGAE, TOXIC ALGAE, WEED PROBLEMS IN LAKES, PONDS, AND CANALS, AND GENERAL DISCUSSIONS OF MECHANICAL, BIOLOGICAL AND CHEMICAL CONTROL METHODS. IN ADDITION, PICTURES, DESCRIPTIONS, AND RECOMMENDED CONTROL METHODS ARE GIVEN FOR ALGAE, 6 TYPES OF FLOATING WEEDS, 18 TYPES OF SUBMERGED WEEDS, AND 4 TYPES OF EMERGENT WEEDS. (BB)

AVAILABILITY: BROWN DEER CHEMICAL CO., P.O. BOX 23403, BROWN DEER, WISCONSIN 53223 ($3.95 EA; $2.95 EA. FOR 12 OR MORE)

INSTITUTION NAME: APPLIED BIOCHEMISTS, INC., MEQUON, WIS.

IRIS ACCESSION NUMBER: EW003473

ERIC ACCESSION NUMBER: ED160465

PUBLICATION DATE: MAY 78

TITLE: OPERATION, MAINTENANCE AND MANAGEMENT OF WASTEWATER TREATMENT FACILITIES: A BIBLIOGRAPHY OF TECHNICAL DOCUMENTS.

PERSONAL AUTHOR: HIMES, DOTTIE

INSTITUTION CODE: BBB13327

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; ENVIRONMENT; FACILITIES; *MANUALS; POLLUTION; TECHNICAL EDUCATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT; *EMERGENCY PLANNING; *MAINTENANCE; *MANAGEMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 25P.

ISSUE: R1EFEB79

ABSTRACT: THIS IS AN ANNOTATED BIBLIOGRAPHY OF WASTEWATER TREATMENT MANUALS. FOURTEEN MANUALS ARE ABSTRACTED INCLUDING: (1) A PLANNED MAINTENANCE MANAGEMENT SYSTEM FOR MUNICIPAL WASTEWATER TREATMENT PLANTS; (2) ANAEROBIC SLUDGE DIGESTION, OPERATIONS MANUAL; (3) EMERGENCY PLANNING FOR MUNICIPAL WASTEWATER TREATMENT FACILITIES; (4) ESTIMATING LABORATORY NEEDS FOR MUNICIPAL WASTEWATER TREATMENT FACILITIES; AND (5) START-UP OF MUNICIPAL WASTEWATER TREATMENT FACILITIES. THESE MANUALS WERE PREPARED BY OPERATIONS SPECIALISTS, AND WERE DEVELOPED IN COOPERATION WITH EPA REGIONAL TECHNICAL STAFF AND STATE AND LOCAL GOVERNMENT PERSONNEL. PRICE LISTS AND ORDER FORMS ARE INCLUDED. (BB)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003474

ERIC ACCESSION NUMBER: ED160466

PUBLICATION DATE: AUG 77

TITLE: THE PUBLIC BENEFITS OF CLEANED WATER: EMERGING GREENWAY OPPORTUNITIES.

PERSONAL AUTHOR: DEARDORFF, HOWARD

SPONSORING AGENCY CODE: BBB16029

DESCRIPTOR: *CITY PLANNING; CONSERVATION (ENVIRONMENT); *ENVIRONMENT; *PARK DESIGN; PARKS; *PLANNING; *URBAN ENVIRONMENT; *WATER POLLUTION CONTROL; WATER RESOURCES; *GREENWAY DESIGN

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 35P.

ISSUE: R1EFEB79

ABSTRACT: HIGHLIGHTED ARE OPPORTUNITIES FOR GREENWAY DEVELOPMENT AND PROTECTION. IT ENCOURAGES CAREFUL MANAGEMENT IN THE USE OF WATERFRONT LAND, EARLY PLANNING FOR PUBLIC ACCESS AND ENJOYMENT OF CLEANED RIVERS, STREAMS, AND HARBORS, AND EFFORTS TO ENSURE THAT THESE BODIES OF WATER ARE NOT REPOLLUTED BY NEW, INDISCRIMINATE DEVELOPMENT ATTRACTED TO THEIR SHORES. ALL PHASES OF PLANNING AND IMPLEMENTATION OF GREENWAY PROJECTS ARE COVERED, AND MANY DIAGRAMS AND EXAMPLES ARE USED. (BB)

REPORT NUMBER: EPA-335

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF LAND USE COORDINATION.

IRIS ACCESSION NUMBER: EW003476

PUBLICATION DATE: 76

TITLE: GUIDE TO SANITATION IN TOURIST ESTABLISHMENTS.

PERSONAL AUTHOR: SALVATO, J. A.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; LAND USE; PESTICIDES; POLLUTION; *PUBLIC HEALTH; *SANITATION; *TOURISM; *WASTE DISPOSAL; WATER RESOURCES

DESCRIPTIVE NOTE: 141P.

ABSTRACT: THE CRITERIA OUTLINED IN THIS GUIDE SERVES AS A BASIS FOR THE DEVELOPMENT OF REGULATORY STANDARDS FOR TOURIST ACCOMMODATIONS. THEY ARE INTENDED PRIMARILY FOR PLACES OUTSIDE MAJOR CITIES, SUCH AS TENT AND TRAILER CAMPING SITES, TOURIST HOMES, YOUTH HOTELS, AND RESIDENT CAMPS. ALSO INCLUDED ARE AGRICULTURAL FAIRS, LABOR CAMPS, MOUNTAIN SHELTERS, AND REST AREAS. ATTENTION IS ALSO GIVEN TO EATING ESTABLISHMENTS, SWIMMING POOLS, AND BATHING BEACHES. (CS)

AVAILABILITY: WHO PUBLICATIONS, 49 SHERIDAN AVE., ALBANY, NY 12210 ($9.60)

IRIS ACCESSION NUMBER: EW003477

PUBLICATION DATE: 78

TITLE: MANAGING THE HEAVY METALS ON THE LAND.

PERSONAL AUTHOR: LEEPER, G. W.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; BOTANY; CHEMISTRY; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LAND USE; *METALS; PHYSIOLOGY; *PLANT GROWTH; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; SOIL SCIENCE; *WASTE DISPOSAL; *HEAVY METALS; *LAND APPLICATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 121P.

ABSTRACT: THIS BOOK EXPLAINS AND SUMMARIZES THE CHEMICAL AND BIOLOGICAL ISSUES THAT ARISE WHEN THE PRODUCTS OF A SEWAGE SYSTEM CONTAINING HEAVY METALS ARE APPLIED TO AGRICULTURAL LAND. THE MAIN AREAS OF DISCUSSION FOCUS ON THE FORMS OF HEAVY METALS, RELATIONS OF PLANTS TO THE HEAVY METALS, AND CROPPING WITH SEWAGE WASTES. A SUMMARY CHAPTER IS PROVIDED FOR THE BENEFIT OF THE GENERAL READER. (CS)

AVAILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW YORK, NY 10016 ($13.50)

IRIS ACCESSION NUMBER: EW003478

PUBLICATION DATE: 76

TITLE: WATER RESOURCES RESEARCH CATALOG, VOL. II.

DESCRIPTOR: *ABSTRACTS; *DIRECTORIES; ENVIRONMENTAL INFLUENCES; MANAGEMENT; NATURAL RESOURCES; *PROGRAM DESCIRPTIONS; *RESEARCH; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: 550P.

ABSTRACT: THIS CATALOGUE MAKES AVAILABLE TO THOSE INDIVIDUALS ENGAGED IN WATER-RELATED RESEARCH, OR OTHERWISE CONCERNED WITH WATER RESOURCES PROBLEMS, INFORMATION ON WHAT IS BEING DONE, BY WHOM, AND WHERE. THIS VOLUME SUMMARIZES 2,941 CURRENT PROJECTS IN SUCH AREAS AS THE NATURE OF WATER; WATER CYCLE, SUPPLY, QUANTITY, AND QUALITY; RESOURCE PLANNING, MANAGEMENT AND PROTECTION; AND MANPOWER, GRANTS, AND FACILITIES. ALSO LISTED ARE THE INVESTIGATORS, PERFORMING ORGANIZATIONS, AND SUPPORTING UNITS. (CS)

AVAILABILITY: NTIS 5285 PORT ROYAL RD., SPRINGFIELD, VA 22162 ($12.00)

INSTITUTION NAME: U.S. DEPT. OF THE INTERIOR, OFFICE OF WATER TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003480

PUBLICATION DATE: 76

TITLE: HANDBOOK FOR CHEMICAL TECHNICIANS.

PERSONAL AUTHOR: STRAUSS, HOWARD J.; KAUFMAN, MILTON

DESCRIPTOR: *CHEMICAL REACTIONS; *CHEMISTRY; ENGINEERING; ENVIRONMENTAL TECHNICIANS; *FUNDAMENTAL CONCEPTS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MATHEMATICAL APPLICATIONS; ORGANIC CHEMISTRY; *POST SECONDARY EDUCATION; SAFETY; WASTE DISPOSAL

DESCRIPTIVE NOTE: 315P.

ABSTRACT: EACH OF THE TEN CHAPTERS OF THIS BOOK ADDRESSES AN IMPORTANT ASPECT OF CHEMICAL TECHNOLOGY. TOPICS INCLUDE MEASUREMENT PRINCIPLES; THERMAL, ELECTRICAL, AND MECHANICAL UNITS; CHEMICAL FUNDAMENTALS; ORGANIC CHEMISTRY; METALS, ALLOYS, AND METAL TESTING; FLUID MECHANICS; AND SAFETY PROCEDURES, FIRST AID, AND WASTE DISPOSAL. EXAMPLES OF CALCULATIONS ARE PROVIDED WITH STEP-BY-STEP EXPLANATIONS. THE TEXT IS INTERSPERSED WITH GRAPHS AND TABLES AS AN AID FOR DAILY LAB WORK. THE NECESSARY PRECAUTIONS FOR THE SAFE HANDLING AND DISPOSAL OF MATERIALS ARE DISCUSSED IN THE FINAL CHAPTER. (CS)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MD 63011 ($17.20)

IRIS ACCESSION NUMBER: EW003481

PUBLICATION DATE: 72

TITLE: WASTEWATER ENGINEERING: COLLECTION, TREATMENT, DISPOSAL.

DESCRIPTOR: *ENGINEERING; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SEWERS; SLUDGE; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT; WATER ANALYSIS; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER)

DESCRIPTIVE NOTE: 782P.

ABSTRACT: THIS TEXT OFFERS TREATMENT OF WASTEWATER ENGINEERING FOR THE UNDERGRADUATE STUDENT, THE GRADUATE STUDENT, AND THE PRACTICING ENGINEER. COMPLEMENTING THE FIRST PART OF THE BOOK WHICH DEALS WITH THE DESIGN OF SEWERS AND PUMP STATION FACILITIES ARE CHAPTERS ON WASTEWATER CHARACTERISTICS, THE FUNDAMENTALS OF THE PHYSICAL UNIT OPERATIONS AND THE CHEMICAL AND BIOLOGICAL UNIT PROCESSES USED IN WASTEWATER ENGINEERING, AND THEIR APPLICATION TO THE DESIGN OF TREATMENT FACILITIES. SEPARATE CHAPTERS ARE ALSO DEVOTED TO SLUDGE DISPOSAL, ADVANCED WASTEWATER TREATMENT, EFFLUENT DISPOSAL AND THE CONDUCT OF WASTEWATER TREATMENT STUDIES. REFERENCES, ILLUSTRATIONS, TABLES CONTAINING DESIGN DATA, AND EXAMPLE PROBLEMS ARE INCORPORATED. (AUTHOR/BB)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD.,

MANCHESTER, MD 63011 ($20.00)

INSTITUTION NAME: METCALF AND EDDY, INC.

IRIS ACCESSION NUMBER: EW003482

PUBLICATION DATE: 78

TITLE: CHEMISTRY FOR ENVIRONMENTAL ENGINEERING, 3RD EDITION.

PERSONAL AUTHOR: SAWYER, CLAIR, N.; MCCARTY, PERRY L.

DESCRIPTOR: CHEMICAL ANALYSIS; *CHEMISTRY; *COLLEGE SCIENCE; *ENGINEERING; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *WATER TREATMENT

DESCRIPTIVE NOTE: 532P.

ABSTRACT: THIS BOOK WAS WRITTEN TO SERVE AS A TEXTBOOK FOR A FIRST COURSE IN CHEMISTRY FOR ENVIRONMENTAL ENGINEERING STUDENTS WITH ONE YEAR OF COLLEGE-LEVEL CHEMISTRY. IT IS ORGANIZED IN TWO PARTS. THE FIRST PART INCLUDES CHAPTERS ON GENERAL, ORGANIC, PHYSICAL, COLLOID, BIO-, NUCLEAR, AND EQUILIBRIUM CHEMISTRY. EACH CHAPTER GIVES EMPHASIS TO ENVIRONMENTAL ENGINEERING APPLICATION. PART TWO CONTAINS GENERAL INFORMATION ON QUANTITATIVE, QUALITATIVE AND INSTRUMENTAL METHODS OF ANALYSIS FOLLOWED BY CHAPTERS ON VARIOUS AREAS OF WATER AND WASTEWATER ANALYSIS SUCH AS TURBIDITY, COLOR, PH, HARDNESS, NITROGEN, FLUORIDE, AND GAS ANALYSIS. PROBLEMS ARE INCLUDED AT THE END OF MOST CHAPTERS. (AUTHOR/BB)

AVAILABILITY: MCGRAW-HILL BOOK CO., 1221 AVE OF THE AMERICAS, NEW YORK, NY 10020 ($21.00)

IRIS ACCESSION NUMBER: EW003483

PUBLICATION DATE: 77

TITLE: WATER AND WASTEWATER TREATMENT.

PERSONAL AUTHOR: SCHROEDER, EDWARD D.

DESCRIPTOR: ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHEMISTRY; HYDROLOGY; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER ANALYSIS; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 370P.

ABSTRACT: THIS BOOK IS WRITTEN FOR UPPER-LEVEL CIVIL OR CHEMICAL ENGINEERING STUDENTS. THE TEXT BEGINS WITH A DISCUSSION OF KINETICS, STOICHIOMETRY AND REACTOR THEORY, THEN FOLLOWS WITH THE APPLICATION OF THE VARIOUS METHODS OF TREATMENT. SOME OF THE IMPORTANT TOPICS INCLUDE MATERIAL ON REACTOR ANALYSIS, NONSTEADY STATE ANALYSIS, DIFFUSION AND REACTION CONTROLLED PROCESS, ADSORPTION MODELS, BET, LANGUIR AND FREUNDLICH ISOTHERMS, AND ADSORBER CONFIGURATION. THE PRESENTATION UTILIZES BOTH THE SI AND THE ENGLISH SYSTEM OF UNITS. A SELECTION OF PROBLEMS IS PROVIDED. IN EACH CHAPTER THE EMPHASIS IS ESSENTIALLY THEORETICAL WITH ATTENTION GIVEN TO A TREATMENT OBJECTIVE AND THE COMPARATIVE METHODS OF TREATMENT INVOLVED. (AUTHOR/BB)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MD. 63011 ($17.20)

IRIS ACCESSION NUMBER: EW003484

PUBLICATION DATE: 76

TITLE: INDUSTRIAL WASTEWATER MANAGEMENT HANDBOOK.

PERSONAL AUTHOR: AZAD, HARDAM SINGH

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; EQUIPMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; LEGISLATION; *MANAGEMENT; POLLUTION; *POST SECONDARY EDUCATION; RECYCLING; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS

ABSTRACT: THIS HANDBOOK PROVIDES DATA AND TECHNIQUES DESIGNED TO SOLVE WASTEWATER MANAGEMENT PROBLEMS IN THE LARGEST WATER POLLUTING INDUSTRIES. IT EXAMINES METHODS OF POLLUTION PREVENTION AND PRODUCT RECOVERY, POLLUTION POTENTIAL OF COMPETING MANUFACTURING PROCESSES, THE PRACTICALITY OF ZERO DISCHARGE, AND SUCCESSFUL INDUSTRIAL WASTEWATER TREATMENT PRACTICES. THE TEXT ALSO DISCUSSES PERTINENT LEGISLATION; EFFLUENT LIMITATIONS, MONITORING, AND CONTROL; EFFLUENT TREATMENT TECHNOLOGY AND PROVEN EQUIPMENT. SPECIFIC METHODS, DATA AND INDUSTRIAL CASE HISTORIES ARE PRESENTED AS AN AID TO SOLVING REAL PROBLEMS. (CS)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MD. 63011 ($26.20)

IRIS ACCESSION NUMBER: EW003485

ERIC ACCESSION NUMBER: ED161738

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: POTABLE WATER I (SINGLE DEGREE PROGRAMS).

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CURRICULUM; EDUCATIONAL ASSESSMENT; ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; POLLUTION; *POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; SCIENCES; WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$18.07 PLUS POSTAGE.

DESCRIPTIVE NOTE: 332P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT PRESENTS A SUMMARY OF POTABLE WATER PROGRAMS IN JUNIOR COLLEGES, VOCATIONAL/TECHNICAL TRAINING INSTITUTES, COMMUNITY COLLEGES, FOUR-YEAR COLLEGES, AND UNIVERSITIES AS WELL AS OTHER TRAINING INSTITUTES. IT REPRESENTS A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. INFORMATION IN THE REPORT WAS LARGELY COMPILED FROM ON-SITE INTERVIEWS WITH PROFESSIONALS IN POST-SECONDARY INSTITUTIONS THROUGHOUT THE UNITED STATES. THIS VOLUME, TOGETHER WITH VOLUME II (MULTIPLE DEGREE PROGRAMS), INCLUDES 101 POST-SECONDARY PROGRAMS FROM 33 STATES. ENROLLMENT AND GRADUATE STATISTICS ARE GIVEN IN ADDITION TO INFORMATION ON FACULTY, CURRICULA, RESEARCH FUNDING AND SOURCES OF STUDENT SUPPORT, AND AN EMPLOYMENT PROFILE. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003486

ERIC ACCESSION NUMBER: ED161739

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: POTABLE WATER II (MULTIPLE DEGREE PROGRAMS).

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CURRICULUM; ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; POLLUTION; *POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; *SCIENCES; WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$20.75 PLUS POSTAGE.

DESCRIPTIVE NOTE: 396P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT PRESENTS A SUMMARY OF WATER TREATMENT PROGRAMS IN JUNIOR COLLEGES, VOCATIONAL/TECHNICAL TRAINING INSTITUTES, COMMUNITY COLLEGES, FOUR-YEAR COLLEGES, AND UNIVERSITIES AS WELL AS OTHER TRAINING INSTITUTES. IT REPRESENTS A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. INFORMATION IN THE REPORT WAS LARGELY COMPILED FROM ON-SITE INTERVIEWS WITH PROFESSIONALS IN POST-SECONDARY INSTITUTIONS THROUGHOUT THE UNITED STATES. THIS VOLUME, TOGETHER WITH VOLUME I (SINGLE DEGREE PROGRAMS), INCLUDES 101 POST-SECONDARY PROGRAMS FROM 33 STATES. ENROLLMENT AND GRADUATE STATISTICS ARE GIVEN IN ADDITION TO INFORMATION ON FACULTY, CURRICULA, RESEARCH FUNDING AND SOURCES OF STUDENT SUPPORT, AND AN EMPLOYMENT PROFILE. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003487

ERIC ACCESSION NUMBER: ED161743

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: WASTEWATER I (SINGLE DEGREE PROGRAMS).

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CURRICULUM; ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; POLLUTION; *POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; SCIENCES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$18.07 PLUS POSTAGE.

DESCRIPTIVE NOTE: 339P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT, TOGETHER WITH VOLUME II, (MULTIPLE DEGREE PROGRAMS), DETAIL 105 POST-SECONDARY WASTEWATER TREATMENT PROGRAMS FROM 33 STATES. THESE PROGRAMS REPRESENT A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. ENROLLMENT AND GRADUATE STATISTICS ARE PRESENTED. THE TOTAL NUMBER OF FACULTY INVOLVED IN ALL THE PROGRAMS SURVEYED WAS 1,106; FULL-TIME FACULTY COMPRISED 73 PERCENT OF THIS. CURRICULA, SOURCES OF RESEARCH FUNDS, AND STUDENT FINANCIAL SUPPORT ARE PRESENTED. A WASTEWATER EMPLOYMENT PROFILE IS INCLUDED. (BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003488

ERIC ACCESSION NUMBER: ED161744

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: WASTEWATER II (MULTIPLE DEGREE PROGRAMS).

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CURRICULUM; ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; POLLUTION; *POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; SCIENCES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$22.09 PLUS POSTAGE.

DESCRIPTIVE NOTE: 404P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT, TOGETHER WITH VOLUME I (SINGLE DEGREE PROGRAMS), DETAIL 105 POST-SECONDARY WASTEWATER TREATMENT PROGRAMS FROM 33 STATES. THESE PROGRAMS REPRESENT A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. ENROLLMENT AND GRADUATE STATISTICS ARE PRESENTED. THE TOTAL NUMBER OF FACULTY INVOLVED IN ALL THE PROGRAMS SURVEYED WAS 1,106; FULL-TIME FACULTY COMPRISED 73 PERCENT OF THIS. CURRICULA, SOURCES OF RESEARCH FUNDS, AND STUDENT FINANCIAL SUPPORT ARE PRESENTED, AND A WASTEWATER EMPLOYMENT PROFILE IS GIVEN. (BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003489

ERIC ACCESSION NUMBER: ED161694

PUBLICATION DATE: 74

TITLE: DEVELOPMENT AND EXCHANGE OF INSTRUCTIONAL RESOURCES IN WATER QUALITY CONTROL PROGRAMS, II: INSTRUCTIONAL MATERIALS AVAILABLE.

PERSONAL AUTHOR: AUSTIN, JOHN H.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; MANUALS; POLLUTION; *POSTSECONDARY EDUCATION; REFERENCE MATERIALS; TEXTBOOKS; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; WATER QUALITY; *WATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 43P.; FOR RELATED DOCUMENTS, SEE SE 025 118-119; CONTAINS NUMEROUS MARGINAL LEGIBILITY

ISSUE: RIEMAR79

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF REPORTS WHICH REVIEWS INSTRUCTIONAL MATERIALS AND EQUIPMENT FOR WATER AND WASTEWATER TREATMENT PLANT PERSONNEL. APPROXIMATELY 900 ITEMS ARE LISTED IN THIS DOCUMENT ALONG WITH GUIDELINES FOR THE PRODUCTION OF INSTRUCTIONAL MATERIALS. INFORMATION IS PROVIDED REGARDING THE SOURCE, TYPE OF MATERIAL, INTENDED AUDIENCE, DESIGNED USAGE, AND COST. (CS)

GRANT NUMBER: EPA-900253

AVAILABILITY: ERIC CLEARINGHOUSE FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (ON LOAN)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003490

ERIC ACCESSION NUMBER: ED161695

PUBLICATION DATE: 74

TITLE: DEVELOPMENT AND EXCHANGE OF INSTRUCTIONAL RESOURCES IN WATER QUALITY CONTROL PROGRAMS, III: SELECTING AUDIO-VISUAL EQUIPMENT.

PERSONAL AUTHOR: MOON, DONALD K.

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: *AUDIO EQUIPMENT; *AUDIOVISUAL AIDS; CRITERIA; *EQUIPMENT EVALUATION; *INSTRUCTIONAL MATERIALS; *MEDIA SELECTION; PROJECTION EQUIPMENT; TAPE RECORDERS; TEACHING GUIDES; VIDEOTAPE RECORDINGS; *WASTEWATER TREATMENT; *WATER QUALITY; *WATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 25P.; FOR RELATED DOCUMENTS, SEE SE 025 117-119; CONTAINS NUMEROUS MARGINAL LEGIBILITY

ISSUE: RIEMAR79

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF REPORTS WHICH REVIEWS INSTRUCTIONAL MATERIALS AND EQUIPMENT AND OFFERS SUGGESTIONS ABOUT HOW TO SELECT EQUIPMENT. TOPICS DISCUSSED INCLUDE: (1) THE GENERAL CRITERIA FOR AUDIO-VISUAL EQUIPMENT SELECTION SUCH AS PERFORMANCE, SAFETY, COMPARABILITY, STURDINESS AND REPAIRABILITY; AND (2) SPECIFIC EQUIPMENT CRITERIA FOR ITEMS SUCH AS MOVIE PROJECTORS, SLIDE PROJECTORS, OVERHEADS, TAPE RECORDERS, AND VIDEO TAPE MACHINES. A GLOSSARY OF AUDIO-VISUAL TERMS IS INCLUDED FOR REFERENCE. THE GUIDE WAS DEVELOPED FOR INSTRUCTORS IN WATER QUALITY AND WASTEWATER TREATMENT PROGRAMS, BUT WOULD BE USEFUL FOR OTHERS. (CS)

GRANT NUMBER: EPA-900253

AVAILABILITY: ERIC CLEARINGHOUSE FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (ON LOAN)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003491

ERIC ACCESSION NUMBER: ED161696

PUBLICATION DATE: 74

TITLE: DEVELOPMENT AND EXCHANGE OF INSTRUCTIONAL RESOURCES IN WATER QUALITY CONTROL PROGRAMS, IV: SELECTING INSTRUCTIONAL MEDIA AND INSTRUCTIONAL SYSTEMS.

PERSONAL AUTHOR: DURHAM, W. HARRY; AND OTHERS

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: *AUDIOVISUAL AIDS; BEHAVIORAL OBJECTIVES; BIBLIOGRAPHIES; CURRICULUM DEVELOPMENT; ENVIRONMENTAL TECHNICIANS; INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LESSON PLANS; *MEDIA SELECTION; POSTSECONDARY EDUCATION; *TEACHING METHODS; WATER POLLUTION CONTROL; *WATER QUALITY; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 27P.; FOR RELATED DOCUMENTS, SEE SE 025 117-118; CONTAINS NUMEROUS MARGINAL LEGIBILITY

ISSUE: RIEMAR79

ABSTRACT: THIS DOCUMENT IS ONE OF A SERIES OF REPORTS WHICH REVIEWS INSTRUCTIONAL MATERIALS AND EQUIPMENT FOR WATER AND WASTEWATER TREATMENT PLANT PERSONNEL. A SYSTEM IS PRESENTED TO ASSIST IN STANDARDIZING THE PRODUCTION OF LESSON PLANS AND INSTRUCTIONAL MATERIALS IN THE WATER QUALITY CONTROL FIELD. A PROCEDURE FOR SELECTING APPROPRIATE INSTRUCTIONAL MEDIA IS DESCRIBED. A GLOSSARY OF SELECTED TERMS IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-900253

AVAILABILITY: ERIC CLEARINGHOUSE FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (ON LOAN)

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003492

ERIC ACCESSION NUMBER: ED161715

PUBLICATION DATE: JUN 76

TITLE: MICROSCOPIC ANALYSIS OF PLANKTON, PERIPHYTON, AND ACTIVATED SLUDGE. TRAINING MANUAL.

INSTITUTION CODE: BBB13327

DESCRIPTOR: BIOLOGICAL SCIENCES; CHEMISTRY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *MANUALS; *MICROBIOLOGY; POST SECONDARY EDUCATION; SCIENCE EDUCATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES; *ACTIVATED SLUDGE; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.93 HC-$18.07 PLUS POSTAGE.

DESCRIPTIVE NOTE: 342P.; CONTAINS OCCASIONAL LIGHT AND SMALL TYPE

ISSUE: RIEMAR79

ABSTRACT: THIS MANUAL IS INTENDED FOR PROFESSIONAL PERSONNEL IN THE FIELDS OF WATER POLLUTION CONTROL, LIMNOLOGY, WATER SUPPLY AND WASTE TREATMENT. PRIMARY EMPHASIS IS GIVEN TO PRACTICE IN THE IDENTIFICATION AND ENUMERATION OF MICROSCOPIC ORGANISMS WHICH MAY BE ENCOUNTERED IN WATER AND ACTIVATED SLUDGE. METHODS FOR THE CHEMICAL AND INSTRUMENTAL EVALUATION OF PLANKTON ARE COMPARED WITH THE RESULTS OF MICROSCOPIC EXAMINATION IN AN EXTENSIVE PRACTICAL EXERCISE. PROBLEMS OF SIGNIFICANCE AND CONTROL ARE ALSO CONSIDERED. (AUTHOR/BB)

REPORT NUMBER: EPA-430/1-76-008

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003493

PUBLICATION DATE: 78

TITLE: GROUNDWATER HYDROLOGY.

PERSONAL AUTHOR: BOUWER, HERMAN

DESCRIPTOR: ENGINEERING; *ENVIRONMENTAL INFLUENCES; GEOLOGY; *HYDRAULICS; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; LAND USE; NATURAL RESOURCES; POLLUTION; *POST SECONDARY EDUCATION; *SOIL SCIENCE; *WATER POLLUTION CONTROL; *WATER RESOURCES; *GROUNDWATER

DESCRIPTIVE NOTE: 480P.

ABSTRACT: THIS BOOK EMPHASIZES ENVIRONMENTAL ASPECTS OF GROUNDWATER AND INCLUDES TOPICS SUCH AS SURFACE-SUBSURFACE WATER RELATIONS, CONTAMINATION OF GROUNDWATER, LAND TREATMENT AND UNDERGROUND DISPOSAL OF WASTEWATER, GEOTHERMAL POWER PRODUCTION, AND LAND SUBSIDENCE. THE TOPICS ARE TREATED IN A MULTIDISCIPLINARY WAY, USING PRINCIPLES OF HYDROLOGY, GEOLOGY, HYDRODYNAMICS,, ENGINEERING, AND SOIL SCIENCE. FREQUENT EXAMPLES AND CASE STUDIES ILLUSTRATE AND CLARIFY POINTS AS WELL AS SHOW USE IN PRACTICAL SITUATIONS. PROBLEMS ARE PROVIDED AT THE END OF EACH CHAPTER TO REINFORCE THE INFORMATION PRESENTED. (CS)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MD 63011 ($18.80)

IRIS ACCESSION NUMBER: EW003494

PUBLICATION DATE: DEC 73

TITLE: FIRST INTERNATIONAL SYMPOSIUM ON OZONE FOR WATER AND WASTEWATER TREATMENT.

PERSONAL AUTHOR: RICE, F.; BROWNING, M.

DESCRIPTOR: *CHEMICAL REACTIONS; *CONFERENCES; ENVIRONMENTAL INFLUENCES; *ENGINEERING; EQUIPMENT UTILIZATION; INDUSTRY; PUBLIC HEALTH; RESEARCH; SANITATION; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *OZONE; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 910P.

ABSTRACT: THESE PROCEEDINGS ARE THE RESULT OF THE FIRST INTERNATIONAL SYMPOSIUM ON OZONE FOR WATER AND WASTEWATER TREATMENT HELD IN 1973. AT THIS SYMPOSIUM THE STATE-OF-THE-ART OF OZONATION FOR THESE PURPOSES WAS DISCUSSED ALONG WITH RELATED ASPECTS SUCH AS ANALYTICAL METHODS, INSTRUMENTATION, DEODORIZING AND HEALTH AND SAFETY ASPECTS. THE PRESENTATIONS ARE GROUPED INTO SIX MAIN CATEGORIES DEALING WITH OZONE GENERATION, ANALYSIS, AND REACTIVITY; MUNICIPAL WATER TREATMENT; MUNICIPAL POLLUTION CONTROL; INDUSTRIAL POLLUTION CONTROL; ECONOMICS; AND HEALTH; SAFETY, AND REGULATORY ASPECTS. EACH PRESENTATION INCLUDES A SUMMARY OR ABSTRACT AND A LIST OF REFERENCES. (CS)

AVAILABILITY: INTERNATIONAL OZONE INSTITUTE, MERRILL LANE, SYRACUSE, NY 13210 ($45.00)

IRIS ACCESSION NUMBER: EW003495

ERIC ACCESSION NUMBER: ED157751

PUBLICATION DATE: 77

TITLE: TRAINING FOR CERTIFICATION: AQUATIC PEST CONTROL.

PERSONAL AUTHOR: WAMSLEY, MARY ANN, ED.; VERMEIRE, DONNA M., ED.

INSTITUTION CODE: BBB06698; BBB14943

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *CERTIFICATION; *ENVIRONMENTAL CRITERIA; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; EXTENSION EDUCATION; *MULTIPLE CHOICE TESTS; *PESTICIDES; PUBLIC HEALTH; QUALITY CONTROL; WATER POLLUTION CONTROL; *WATER RESOURCES; WEEDS; *MISSISSIPPI STATE UNIVERSITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 29P.; FOR RELATED DOCUMENTS, SEE SE 024 753-757; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEDEC78

ABSTRACT: THIS COOPERATIVE EXTENSION SERVICE PUBLICATION FROM MISSISSIPPI STATE UNIVERSITY IS A TRAINING GUIDE FOR COMMERCIAL APPLICATORS. WEED CONTROL, VERTEBRATE PEST CONTROL, AND ENVIRONMENTAL CONSIDERATIONS AND RESTRICTIONS ARE THE THREE MAJOR PARTS OF THE DOCUMENT. THE WEED CONTROL SECTION DISCUSSES NON-PESTICIDE, MECHANICAL, AND BIOLOGICAL CONTROL AS WELL AS WEED CONTROL IN STATIC WATER, LARGE IMPOUNDMENTS, FLOWING WATER, AND LIMITED-FLOW WATER WAYS. BOTH FISH AND MAMMAL CONTROL PRACTICES ARE PRESENTED IN THE VERTEBRATE PEST CONTROL SECTION. IN THE FINAL SECTION, APPLICATION RATES, STATE AND FEDERAL REGULATIONS, UNITS AND CONVERSION EQUIVALENTS, AND HERBICIDE APPLICATION FORMULAS ARE PRESENTED. ALSO, AN INSTRUMENT OF 26 TRUE-FALSE QUESTIONS AND 26 MULTIPLE CHOICE ITEMS IS INCLUDED AS "STUDY QUESTIONS." THE ANSWERS ARE GIVEN. (MR)

CONTRACT NUMBER: EPA-68-01-2918

INSTITUTION NAME: CALIFORNIA STATE POLYTECHNIC UNIV., POMONA.; MISSISSIPPI STATE UNIV., STATE COLLEGE. COOPERATIVE EXTENSION SERVICE.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003496

PUBLICATION DATE: MAR 78

TITLE: ADVANCES IN WATER AND WASTEWATER TREATMENT. BIOLOGICAL NUTRIENT REMOVAL.

PERSONAL AUTHOR: WANIELISTA, MARTIN; ECKENFELDER, W. WESLEY JR.

DESCRIPTOR: *CHEMISTRY; EARTH SCIENCE; *ECOLOGICAL FACTORS; *ENVIRONMENT; *POLLUTION; *SANITATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; WATER RESOURCES; BIOLOGICAL NUTRIENT REMOVAL SYSTEMS; *WASTEWATER; *WATER TREATMENT; *NUTRIENTS

DESCRIPTIVE NOTE: 286P.

ABSTRACT: THIS COLLECTION OF PAPERS ADDRESSES THE RELATIVELY NEW TECHNOLOGY OF BIOLOGICAL NUTRIENT REMOVAL SYSTEMS. THESE SYSTEMS OFFER THE POTENTIAL OF HIGH QUALITY EFFLUENT DISCHARGE TO RECEIVING WATERS OR FOR PROCESSING FOR LAND APPLICATION. EUTROPHIC CONDITIONS IN WATER MANDATE GREATER REMOVAL OF NUTRIENTS AND HAVE GIVEN USE TO INCREASED WATER POLLUTION CONTROL REQUIREMENTS. IN MANY CASES BIOLOGICAL NUTRIENT REMOVAL PROVIDES A COST-EFFECTIVE MEANS FOR DEALING WITH EUTROPHICATION PROBLEMS RESULTING FROM POLLUTION. THIS REFERENCE VOLUME OF 13 PAPERS PRESENTS SOME STATE-OF-THE-ART ALTERNATIVES FOR NUTRIENT REMOVAL. (RE)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS; P.O. BOX 1425, ANN ARBOR, MI 48106 ($22.50)

IRIS ACCESSION NUMBER: EW003497

PUBLICATION DATE: 78

TITLE: CHEMISTRY OF WASTEWATER TECHNOLOGY.

PERSONAL AUTHOR: RUBIN, ALAN J.

DESCRIPTOR: BIOLOGY; CHEMISTRY; EARTH SCIENCE; *ECOLOGICAL FACTORS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POST SECONDARY EDUCATION; *SANITATION; WASTES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 498P.

ABSTRACT: THIS COLLECTION OF 26 PAPERS DEALS PRIMARILY WITH THE PHYSICAL CHEMISTRY OF PARTICLE SEPARATION AS APPLIED TO WASTEWATER TREATMENT. TOPICS COVERED INCLUDE COAGULATION, PRECIPITATION, FILTRATION, NUTRIENT REMOVAL, ADSORPTION, AND DISINFECTION. DISCUSSIONS COVER THE PHYSICAL CHEMISTRY OF WASTE TREATMENT PROCESSES COMMONLY IN USE AND ALSO PRESENT DISCUSSION OF INNOVATIVE TECHNIQUES AND UNUSUAL PROBLEMS. NUMEROUS CHARTS, TABLES, AND GRAPHS ACCOMPANY THE DISCUSSIONS. (EE)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($30.00)

IRIS ACCESSION NUMBER: EW003498

PUBLICATION DATE: OCT 75

TITLE: WATER CHLORINATION: ENVIRONMENTAL IMPACT AND HEALTH EFFECTS, VOL. 1.

PERSONAL AUTHOR: JOLLEY, ROBERT L., ED.; AND OTHERS

DESCRIPTOR: *CHEMISTRY; *CONFERENCES; EARTH SCIENCE; *ECOLOGICAL FACTORS; ENVIRONMENT; *HEALTH CONDITIONS; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; *SANITATION IMPROVEMENT; SCIENTIFIC RESEARCH; *WATER POLLUTION CONTROL; WATER RESOURCES; *CHLORINATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 439P.

ABSTRACT: THESE PROCEEDINGS OF THE CONFERENCE ON THE ENVIRONMENTAL IMPACT OF WATER CHLORINATION HELD AT OAK RIDGE NATIONAL LABORATORY, TENNESSEE ON OCTOBER 22-24, 1975, COVER THE ENVIRONMENTAL EFFECTS OF WATER CHLORINATION. THE BOOK PRESENTS A SUMMARY OF STANDARD PRACTICES IN WATER CHLORINATION. INDIVIDUAL PAPERS COVER TOPIC AREAS OF AQUEOUS CHEMISTRY OF CHLORINE; BIOMEDICAL EFFECTS OF CHLORO-ORGANICS, ENVIRONMENTAL TRANSPORT AND EFFECTS OF CHLORINE IN THE AQUATIC AND MARINE ENVIRONMENTS, AND MODELING AND PREDICTION OF CHLORINE TRANSPORT AND TOXICITY. A ROUNDTABLE DISCUSSION OF CHLORINATION, PARTICULARLY AS RELATED TO WATER DISCHARGES FROM POWER PLANTS, CONCLUDES THE BOOK. (RE)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($22.00)

IRIS ACCESSION NUMBER: EW003499

PUBLICATION DATE: NOV 77

TITLE: WATER CHLORINATION: ENVIRONMENTAL IMPACT AND HEALTH EFFECTS, VOL. 2.

PERSONAL AUTHOR: JOLLEY, ROBERT L., ED.; AND OTHERS

DESCRIPTOR: *CHEMISTRY; *CONFERENCES; EARTH SCIENCE; *ECOLOGICAL FACTORS; ENVIRONMENT; *HEALTH CONDITIONS; *INSTRUCTIONAL MATERIALS; *POLLUTION; *SANITATION IMPROVEMENT; *SCIENTIFIC RESEARCH; *WATER POLLUTION CONTROL; *WATER RESOURCES; *CHLORINATION; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 909P.

ABSTRACT: THESE PROCEEDINGS OF THE SECOND CONFERENCE ON THE ENVIRONMENTAL IMPACT OF WATER CHLORINATION, 1977 PRESENT LATEST RESEARCH IN THE ENVIRONMENTAL AND PUBLIC HEALTH IMPACTS OF WATER CHLORINATION. AMONG THE SUBJECTS COVERED ARE: (1) THE ELIMINATING OF FRESHWATER SYSTEMS AND THE INTERACTIONS OF CHLORINE WITH THESE SYSTEMS; (2) ENVIRONMENTAL EFFECTS OF CHLORINATION ON FRESHWATER LIFE FORMS; (3) THE CHEMISTRY OF MARINE SYSTEMS AND CHLORINES ROLE IN THIS CHEMISTRY; (4) THE ENVIRONMENTAL EFFECTS OF CHLORINE IN MARINE ECOSYSTEMS; AND (5) HEALTH EFFECTS OF CHLORINE IN DRINKING WATER AND THE ENVIRONMENT. ALTERNATIVES TO CHLORINATION FOR TREATMENT OF DRINKING WATER, WASTEWATER, COOLING WATER, AND INDUSTRIAL EFFLUENTS ARE PRESENTED. EMERGING AND EXISTING REGULATIONS ARE DISCUSSED. A CHAPTER IS DEVOTED TO A SUMMARY AND DISCUSSION OF FUTURE PRIORITIES IN CHLORINATION RESEARCH. (RE)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P. O. BOX 1425, ANN ARBOR, MI 48106 ($30.00)

IRIS ACCESSION NUMBER: EW003500

PUBLICATION DATE: 78

TITLE: MODERN POLLUTION CONTROL TECHNOLOGY. VOLUME II, WATER POLLUTION CONTROL, SOLID WASTE DISPOSAL.

DESCRIPTOR: CHEMICAL ANALYSIS; *ENGINEERING TECHNOLOGY; ENVIRONMENTAL INFLUENCES; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; LAND USE; MUNICIPALITIES; POLLUTION; *POST SECONDARY EDUCATION; RECYCLING; *SANITATION; *SOLID WASTES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 650P.

ABSTRACT: EACH OF THE 52 CHAPTERS IN THIS TEXT ADDRESSES AN IMPORTANT PARAMETER IN THE FIELD OF POLLUTION CONTROL TECHNOLOGY. PART I IS DEVOTED TO THE TECHNOLOGY OF WATER POLLUTION CONTROL AND DISCUSSES SUCH PARAMETERS AS WASTEWATER MONITORING; ANALYTICAL QUALITY CONTROL IN WATER LABORATORIES; SLUDGE TREATMENT AND DISPOSAL; UPGRADING WASTEWATER TREATMENT PLANTS; AND NITRIFICATION, CARBON TREATMENT AND SULFIDE CONTROL IN SEWAGE SYSTEMS. PART II DISCUSSES SOLID WASTE DISPOSAL AND INCLUDES TOPIC AREAS SUCH AS WASTE GENERATION, INCINERATION, LANDFILLS, RECYCLING AND COMPOSTING, AND OCEAN DUMPING. EACH CHAPTER CONTAINS A BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: RESEARCH & EDUCATION ASSOCIATION, 342 MADISON AVE., NEW YORK, NY 10017 ($39.75 PER SET)

INSTITUTION NAME: RESEARCH AND EDUCATION ASSOC.

IRIS ACCESSION NUMBER: EW003501

ERIC ACCESSION NUMBER: ED161662

PUBLICATION DATE: 77

TITLE: SUPERVISORY MANAGEMENT IN THE WATER/WASTEWATER FIELD: SELF STUDY PROGRAM. REVISED SECOND EDITION. TEXTBOOK AND STUDENT MANUAL. LESSONS 1-7 AND APPENDIX. EXECUTIVE PROGRAMS OF THE GRADUATE SCHOOL OF BUSINESS ADMINISTRATION OF MICHIGAN STATE UNIVERSITY.

PERSONAL AUTHOR: LIEBRENZ, MARILYN L., ED.

INSTITUTION CODE: BBB16125

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: CERTIFICATION; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; POLLUTION; *POSTSECONDARY EDUCATION; *PROFESSIONAL TRAINING; *SUPERVISION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT; WATER QUALITY; *WATER TREATMENT; *MANAGEMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$20.75 PLUS POSTAGE.

DESCRIPTIVE NOTE: 392P.; SOME COLORED PAGES WILL NOT REPRODUCE WELL; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEMAR79

ABSTRACT: THIS DOCUMENT IS THE STUDENT MANUAL FOR A SELF-STUDY COURSE ON MANAGERIAL PRINCIPLES AS THEY RELATE TO THE WATER OR WASTEWATER TREATMENT FIELD. EACH OF THE SEVEN LESSONS IS CONCERNED WITH A SEGMENT OF THE MANAGEMENT PROCESS AND CORRESPONDS TO READING MATERIAL IN THE ACCOMPANYING TEXT. AN OBJECTIVE AND SUBJECTIVE TEST PORTION IS INCLUDED IN EACH LESSON. TOPIC AREAS ARE: INTRODUCTION; RESPONSIBILITY TOWARD DELEGATION AND MOTIVATION; PROBLEM-SOLVING AND COMMUNICATION SKILLS; PLANNING AND ORGANIZING; STAFFING; RESPONSIBILITY IN DIRECTING AND CONTROLLING; AND RELATIONS WITH THE UNIONS AND EMPLOYEES. A MANAGEMENT-AUDIT FORMAT IS PROVIDED IN THE APPENDIX. (CS)

INSTITUTION NAME: MICHIGAN STATE UNIV., EAST LANSING. COLL. OF BUSINESS.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003502

ERIC ACCESSION NUMBER: ED161699

PUBLICATION DATE: 75

TITLE: SELF-MONITORING PROCEDURES: BASIC LABORATORY SKILLS, INSTRUCTIONAL PACKAGE WORKSHEETS.

PERSONAL AUTHOR: ENGEL, WILLIAM T.; AND OTHERS

INSTITUTION CODE: BBB09266

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: COURSE CONTENT; *EDUCATIONAL PROGRAMS; ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; *POLLUTION; *POSTSECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *MONITORING; *EFFLUENTS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 114P.; FOR RELATED DOCUMENTS, SEE ED 147 189-195; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEMAR79

ABSTRACT: THIS MANUAL CONTAINS INSTRUCTIONAL WORKSHEETS FOR A COURSE IN BASIC LABORATORY SKILLS. IT HAS BEEN DESIGNED TO MEET THE NEEDS OF THE TREATMENT PLANT TECHNICIAN WHO HAS LITTLE OR NO PREVIOUS LABORATORY EXPERIENCE AND IS REQUIRED TO MONITOR EFFLUENT DISCHARGES. THE MANUAL IS PREPARED ON A MODULAR BASIS AND INCLUDES BASIC MATHEMATICS, WEIGHING TECHNIQUES, USE OF EQUIPMENT, SOLUTION PREPARATION, AND BASIC MICROBIOLOGICAL TECHNIQUES. ALL HANDOUT SHEETS, PRE- AND POST-TESTS, AND QUIZZES ARE CONTAINED IN THE APPENDIX. (CS)

REPORT NUMBER: EPA-430-1-75-008

GRANT NUMBER: EPA-900501

INSTITUTION NAME: CHARLES COUNTY COMMUNITY COLL., LA PLATA, MD.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003503

ERIC ACCESSION NUMBER: ED161750

PUBLICATION DATE: MAR 78

TITLE: APPLICATION OF SLUDGES AND WASTEWATERS ON AGRICULTURAL LAND: A PLANNING AND EDUCATIONAL GUIDE, MCD-35. RESEARCH BULLETIN 1090.

PERSONAL AUTHOR: KNEZEK, BERNARD D., ED.; MILLER, ROBERT H., ED.

INSTITUTION CODE: BBB00861

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: AGRICULTURAL EDUCATION; *AGRICULTURE; ENVIRONMENTAL EDUCATION; *LAND USE; SCIENCE EDUCATION; SOIL CONSERVATION; *SOIL SCIENCE; TURF MANAGEMENT; *WASTE DISPOSAL; *WATER RESOURCES; *LAND APPLICATION; *SLUDGE; *WASTEWATER

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 99P.

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT ADDRESSES THE APPLICATION OF AGRICULTURAL PROCESSING WASTES, INDUSTRIAL AND MUNICIPAL WASTES ON AGRICULTURAL LAND AS BOTH A WASTE MANAGEMENT AND RESOURCE RECOVERY AND REUSE PRACTICE. THE DOCUMENT EMPHASIZES THE TREATMENT AND BENEFICIAL UTILIZATION OF SLUDGE AND WASTEWATER AS OPPOSED TO WASTE DISPOSAL. THESE OBJECTIVES ARE ACHIEVED THROUGH INCORPORATION INTO WELL-DESIGNED AND OPERATED AGRICULTURAL PRODUCTION SYSTEMS IN WAYS THAT ARE COMPATIBLE WITH MAINTAINING THE SOIL'S NORMAL VIABILITY AND PRODUCTIVITY. WASTE CHARACTERIZATION, CROP SELECTION AND MANAGEMENT, SITE SELECTION, MANAGEMENT AND MONITORING ARE ADDRESSED. SAMPLE PROBLEMS, PROCEDURES, CALCULATIONS AND DIAGRAMS ARE INCORPORATED INTO MOST SECTIONS. IN ADDITION, PUBLIC HEALTH AND NUISANCE CONCERNS, AS WELL AS PUBLIC ACCEPTANCE, LEGAL AND ECONOMIC CONSIDERATIONS ARE DISCUSSED. (AUTHOR/BB)

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8FFS), CENTRALIZED MAILING LIST SERVICES, BLDG. 41, DENVER FEDERAL CENTER, DENVER, CO 80225 (NO PRICE QUOTED)

INSTITUTION NAME: OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER, WOOSTER.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003504

ERIC ACCESSION NUMBER: ED162817

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM - INTRODUCTION AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: AGRICULTURE; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POSTSECONDARY EDUCATION; RESOURCES; *SANITATION; *WASTE DISPOSAL; *WASTES; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 27P.; FOR RELATED DOCUMENTS, SEE SE 025 015-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; SCRIPT MARGINALLY LEGIBLE

ISSUE: RIEAPR79

ABSTRACT: THIS IS THE INTRODUCTORY MODULE TO THE LAND APPLICATION OF WASTES EDUCATIONAL PROGRAM. THE MODULE CONTAINS INFORMATION ON THE CONTENT, STRUCTURE, AND DYNAMICS OF THE PROGRAM. ALSO INCLUDED WITH THE MODULE IS A SCRIPT TO ACCOMPANY A SLIDE PRESENTATION. THE LAND APPLICATION OF WASTES PROGRAM CONSISTS OF TWENTY-FIVE MODULES AND AUDIO-VISUAL MATERIALS. THE MODULES INCORPORATE KNOWLEDGE FROM SANITARY AND ENVIRONMENTAL ENGINEERING, AGRONOMY, SOIL SCIENCE, AGRICULTURAL ENGINEERING, ECONOMICS, AND LAW. (BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003505

ERIC ACCESSION NUMBER: ED162818

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. SOCIETAL AND LEGAL CONSTRAINTS - MODULE 1.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LAWS; *LEARNING MODULES; *LEGAL PROBLEMS; POSTSECONDARY EDUCATION; SANITATION; *WASTE DISPOSAL; WASTES; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 62P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE IS AN INTRODUCTION TO THE LEGAL AND SOCIETAL CONSIDERATIONS WHICH MUST BE APPRAISED WHEN LAND APPLICATION SYSTEMS ARE BEING DESIGNED. IT SERVES AS AN INTRODUCTION TO THE FEDERAL LEGISLATION AND STATE GUIDELINES PERTAINING TO LAND TREATMENT. THE MAIN THRUST OF THIS MODULE IS TO POINT OUT SOME OF THE CONCERNS WHICH A COMMUNITY IS LIKELY TO EXPRESS REGARDING LAND TREATMENT PROPOSALS, AND TO ILLUSTRATE THE IMPORTANCE OF OPEN DEALINGS WITH THE COMMUNITY TO FOSTER PUBLIC PARTICIPATION IN THE DECISION-MAKING PROCESS. ZONING ORDINANCES, THE VARIOUS PLANNING AND ZONING BOARDS, PUBLIC ACCEPTANCE, COMMUNITY CONCERNS, ECONOMIC AND AESTHETIC FACTORS ARE SOME OF THE CONCEPTS DISCUSSED IN RELATION TO LAND APPLICATION. TO ILLUSTRATE EACH OF THESE CONCEPTS, AND THE INTERRELATIONSHIPS AMONG THE VARIOUS LOCAL BODIES IN A WELL THOUGHT OUT PUBLIC ACCEPTANCE CAMPAIGN, TWO CASE HISTORIES ARE PRESENTED. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003506

ERIC ACCESSION NUMBER: ED162819

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. SITE EVALUATION - MODULE 2, OBJECTIVES, SCRIPT, AND SOURCES OF INFORMATION.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: ENVIRONMENT; *GEOLOGY; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POSTSECONDARY EDUCATION; SANITATION; *SOIL SCIENCE; *WASTE DISPOSAL; WASTES; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 75P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE DESCRIBES IMPORTANT CRITERIA TO USE IN EVALUATING LAND FOR WASTE TREATMENT SITES AND TELLS WHERE THE NECESSARY INFORMATION FOR SUCH EVALUATION CAN BE OBTAINED. AMONG THE IMPORTANT CRITERIA FOR EVALUATION ARE CLIMATE, LAND USE OF POTENTIAL SITE AND SURROUNDING AREAS, TOPOGRAPHY, DRAINAGE CHARACTERISTICS, SOIL PROPERTIES, AND GEOLOGY. CLIMATIC DATA ARE AVAILABLE FOR MOST LOCATIONS IN THE UNITED STATES IN MONTHLY AND 10-YEAR SUMMARIES. COMPUTER PROGRAMS CAN BE OBTAINED WHICH IDENTIFY UNFAVORABLE AND FAVORABLE DAYS FOR WASTE APPLICATION IN BOTH WET AND COLD CLIMATES. PLANNING AGENCIES ON THE LOCAL, REGIONAL AND STATE LEVEL HAVE INFORMATION ON LAND USE, TOPOGRAPHIC MAPS, INFORMATION ON WATER LEVELS AND WATER QUALITY, AND LOCAL GROUNDWATER CONDITIONS ARE AVAILABLE FROM U.S. AND STATE GEOLOGICAL SURVEYS. MODERN SOIL SURVEYS PUBLISHED SINCE 1960 PROVIDE A WEALTH OF DATA IN ADDITION TO SOIL PHYSICAL PROPERTIES. AERIAL PHOTOS SHOW LAND USE, DRAINAGE, AND TOPOGRAPHY OF THE LAND. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001 (NO PRICE QUOTED)

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003507

ERIC ACCESSION NUMBER: ED162820

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. SOIL AS A TREATMENT MEDIUM - MODULE 3, OBJECTIVES, SCRIPT AND BOOKLET.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: BIOLOGY; CHEMISTRY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POSTSECONDARY EDUCATION; SANITATION; *SOIL SCIENCE; *WASTE DISPOSAL; *WASTES; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 87P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; PHOTOGRAPH MAY NOT REPRODUCE WELL

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE EXAMINES THE BASIC PROPERTIES OF SOIL WHICH HAVE AN INFLUENCE ON THE SUCCESS OF LAND TREATMENT OF WASTES. THESE RELEVANT PROPERTIES INCLUDE SOIL TEXTURE, SOIL STRUCTURE, PERMEABILITY, INFILTRATION, AVAILABLE WATER CAPACITY, AND CATION EXCHANGE CAPACITY. BIOLOGICAL, CHEMICAL AND PHYSICAL MECHANISMS WORK TO REMOVE AND RENOVATE WASTES AFTER THEIR APPLICATION TO THE SOIL. WASTES ARE REMOVED PHYSICALLY THROUGH FILTRATION BY THE SOIL AND ALTERED BY DILUTION, EITHER UPON ENTERING THE GROUNDWATER OR BY AUGMENTATION IN THE SOIL WITH NATURAL RAINFALL OR SNOWMELT. ABSORPTION AND PRECIPITATION ARE THE TWO MAIN PROCESSES OF CHEMICAL RETENTION OF WASTES IN SOIL. POTENTIALLY TOXIC ELEMENTS AND THE MACRONUTRIENTS NITROGEN AND PHOSPHORUS ARE PARTIALLY CONTROLLED BY CHEMICAL MECHANISMS IN SOIL. BIOLOGICAL MECHANISMS ALTER WASTE CONSTITUENTS IN STAGES. SOIL ORGANISMS DECOMPOSE ORGANIC COMPOUNDS. THE SOIL'S ABILITY TO HANDLE WASTES IS LIMITED BY THE LOADING OF NITROGEN, PHOSPHORUS, AND WATER, THE ADDITION OF POTENTIALLY TOXIC MATERIALS, AND ITS SODIUM ADSORPTION RATION. THIS MODULE SUMMARIZES THESE LIMITATIONS, IDENTIFYING NITROGEN AS THE MAJOR LIMITING FACTOR IN MOST SITUATIONS. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003508

ERIC ACCESSION NUMBER: ED162821

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. TREATMENT SYSTEMS, EFFLUENT QUALITIES, AND COSTS - MODULE 4, OBJECTIVES, SCRIPT, AND BOOKLET.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *COST EFFECTIVENESS; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POSTSECONDARY EDUCATION; *SANITATION; *WASTE DISPOSAL; WASTES; WATER POLLUTION CONTROL; LAND APPLICATION; *WASTEWATER TREATMENT; *EFFLUENTS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 60P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE DESCRIBES THE FOLLOWING CONVENTIONAL TREATMENT SYSTEMS AND EVALUATES THEIR USE AS PRETREATMENT STEPS FOR LAND APPLICATION: PRELIMINARY, PRIMARY, SECONDARY, DISINFECTION, AND ADVANCED WASTE TREATMENT. EFFLUENT QUALITIES ARE SUMMARIZED, A BRIEF DISCUSSION OF APPLICATION SYSTEMS IS GIVEN, AND COST COMPARISONS ARE DISCUSSED IN SOME DETAIL. DIFFERENT APPROACHES TO SIZING OF CONVENTIONAL AND LAND APPLICATION SYSTEMS ARE DISCUSSED, AND HAVE A SIGNIFICANT BEARING ON ACTUAL COST COMPARISONS. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003509

ERIC ACCESSION NUMBER: ED162822

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. WASTE CHARACTERISTICS - MODULE 5, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: BIOLOGY; CHEMISTRY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POLLUTION; POSTSECONDARY EDUCATION; SANITATION; *WASTE DISPOSAL; *WASTES; *WATER POLLUTION CONTROL; LAND APPLICATION; *WASTEWATER TREATMENT; *SLUDGE; *WASTEWATER

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 60P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE INTRODUCES THE PHYSICAL, BIOLOGICAL, AND CHEMICAL CONSTITUENTS OF WASTEWATERS AND SLUDGES WHICH ARE OF CONCERN IN LAND TREATMENT SYSTEMS. THE CHARACTERISTICS OF TYPICAL MUNICIPAL WASTEWATER ARE TABULATED FOR STRONG, MEDIUM, AND WEAK SEWAGES. SOME OF THE FACTORS AFFECTING POLLUTANT CONCENTRATIONS ARE LISTED. FLOW, DISTRIBUTION AND EXPECTED REMOVALS OF VARIOUS WASTE CONSTITUENTS IN CONVENTIONAL TREATMENT SYSTEMS ARE ILLUSTRATED THROUGH THE USE OF FLOW DIAGRAMS. SINCE THE LIQUID EFFLUENT OR SLUDGE FROM VARIOUS CONVENTIONAL PRETREATMENTS, AS WELL AS RAW WASTEWATER, MAY BE THE INFLUENT TO A LAND APPLICATION SITE, THIS INFORMATION IS NECESSARY TO THE DESIGN OF LAND TREATMENT SCHEMES. A SUMMARY OF FLOW DISTRIBUTION AND POLLUTANT REMOVALS IN LAND TREATMENT SYSTEMS IS PRESENTED IN A SCRIPT WRITTEN TO ACCOMPANY A SLIDE PRESENTATION. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003510

ERIC ACCESSION NUMBER: ED162823

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. DESIGN PROCEDURES FOR LAND APPLICATION OF WASTES - MODULE 6, OBJECTIVES, SCRIPT AND FIGURES.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *DESIGN; *ENGINEERING; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POSTSECONDARY EDUCATION; SANITATION; *WASTE DISPOSAL; WASTES; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 59P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THE PURPOSE OF THIS MODULE IS TO DEVELOP A GENERAL PROCEDURE TO DECIDE THE FEASIBILITY OF LAND APPLICATION AS A WASTE MANAGEMENT ALTERNATIVE, GIVEN A SPECIFIC PROBLEM SITUATION. THIS INFORMATION PROVIDES A FRAMEWORK WITHIN WHICH TO APPLY THE INFORMATION PRESENTED IN ALL OTHER MODULES IN THE PROGRAM. AN OUTLINE OF THE GENERAL PROCEDURE FOLLOWED IN ENGINEERING DESIGN IS PRESENTED, THEN RELATED TO THE PROCEDURE TO BE FOLLOWED FOR LAND APPLICATION. THE DESIGN PROCEDURE IS DIVIDED INTO A TWO-LEVEL APPROACH. THE FIRST LEVEL IS INTENDED TO ROUGHLY APPROXIMATE THE INITIAL FEASIBILITY DETERMINATION FOR THIS TECHNOLOGY. MAJOR PROBLEMS CREATED BY WATER MANAGEMENT, SOLIDS AND ORGANIC CHARACTERISTICS OF THE WASTES, NUTRIENTS, TOXIC ELEMENTS, AND SITE DETERMINATION ARE IDENTIFIED. THIS ANALYSIS IS ILLUSTRATED BY THE DESIGN EXAMPLE ON LAND APPLICATION OF HARBOR DREDGE SPOIL. LEVEL II ANALYSIS MAKES USE OF THE COMPREHENSIVE MODULES TO EXAMINE THE LIMITING FACTORS IN DETAIL AND OTHER MAJOR CONCERNS WHICH WILL AFFECT THE FINAL PROBLEM SOLUTION. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003511

ERIC ACCESSION NUMBER: ED162824

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. ROLE OF VEGETATIVE COVER - MODULE 7, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *AGRONOMY; BOTANY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POSTSECONDARY EDUCATION; SANITATION; SCIENCE EDUCATION; SOIL SCIENCE; *TURF MANAGEMENT; *WASTE DISPOSAL; WASTES; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 36P.; FOR RELATED DOCUMENTS, SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE DISCUSSES SOME OF THE OBJECTIVES OF INCORPORATING VEGETATIVE COVER IN LAND TREATMENT SYSTEMS. SPECIFIC CROPS AND FOREST COVER ARE MENTIONED IN RELATION TO BENEFITS ASSOCIATED WITH EACH, AND SPECIFIC TREATMENT ALTERNATIVES (IRRIGATION, OVERLAND FLOW, AND RAPID INFILTRATION) ARE INCLUDED IN RELATION TO VEGETATIVE COVER CONSIDERATIONS. WASTE TREATMENT BY LAND APPLICATION RESTS ON THE ABILITY OF A GIVEN SITE TO HANDLE ADDITIONS OF BOTH WATER AND OTHER WASTE CONSTITUENTS. A SUITABLE VEGETATIVE COVER ENHANCES THE CAPACITY OF SOIL TO ACCEPT AND RENOVATE WASTES THROUGH SEVERAL MEANS. ROOTED PLANTS PROTECT THE SOIL FROM EROSION LOSS, ENCOURAGE AND MAINTAIN INFILTRATION, ACCELERATE SOIL DRYING THROUGH TRANSPIRATION, ABSORB NUTRIENTS, PRODUCE ECONOMIC BENEFITS FROM CROP HARVEST, AND POSSESS AN AESTHETIC APPEAL. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003512

ERIC ACCESSION NUMBER: ED162825

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. CLIMATE AND WASTEWATER STORAGE - MODULE 8, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *CLIMATIC FACTORS; *COMPUTER PROGRAMS; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; METEOROLOGY; POSTSECONDARY EDUCATION; SANITATION; *WASTE DISPOSAL; WASTES; HYDROLOGY; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 217P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE DISCUSSES THE HYDROLOGIC CONSIDERATIONS THAT APPLY TO LAND APPLICATION OF WASTES. THESE ARE PRECIPITATION, INFILTRATION AND PERCOLATION, EVAPOTRANSPIRATION, RUNOFF, AND GROUNDWATER. CLIMATIC CONSIDERATIONS THAT RELATE TO WASTEWATER STORAGE ARE ALSO DISCUSSED. PARTICULAR EMPHASIS IS GIVEN TO WASTEWATER FLOW, PRECIPITATION, EVAPORATION, AND SEEPAGE. THE DETERMINATION OF THE WASTEWATER STORAGE PERIOD BY ANALYZING CLIMATIC FACTORS SUCH AS LOCATION OF THE SITE, TEMPERATURE, PRECIPITATION, SNOW COVER AND SOIL MOISTURE IS DISCUSSED. COMPUTER PROGRAMS THAT CAN BE USED TO DO THIS ARE GIVEN. (BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003513

ERIC ACCESSION NUMBER: ED162826

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. PATHOGENS - MODULE 9.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *DISEASE CONTROL; ENVIRONMENT; *HEALTH; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; MICROBIOLOGY; PATHOLOGY; POSTSECONDARY EDUCATION; SANITATION; *WASTE DISPOSAL; WASTES; LAND APPLICATION; *WASTEWATER TREATMENT; *PATHOGENS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 88P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE IS INTENDED TO HELP ENGINEERS EVALUATE THE RELATIVE HEALTH RISKS FROM PATHOGENS AT LAND TREATMENT SITES VERSUS CONVENTIONAL WASTE TREATMENT SYSTEMS. AMONG THE TOPICS CONSIDERED ARE THE FOLLOWING: (1) THE RELATIONSHIP BETWEEN SURVIVAL TIME OF PATHOGENS AND THE CHANCE OF DISEASE TRANSMISSION TO HUMANS; (2) THE FACTORS THAT FAVOR SURVIVAL OF PATHOGENS IN THE SOIL; (3) SURVIVAL OF PATHOGENS ON VEGETATION; (4) FACTORS WHICH AFFECT THE MOVEMENT OF PATHOGENS THROUGH THE SOIL AND THEIR UPTAKE AND RETENTION ON SOIL PARTICLES; (5) THE POSSIBILITY OF PATHOGENS MOVING TO THE GROUNDWATER AND HOW LONG THEY LIVE IN GROUNDWATER; (6) THE RISKS OF CROP CONTAMINATION AND HOW

TO MINIMIZE THEM; (7) THE EFFECTS OF VARIOUS CONVENTIONAL TREATMENT PROCESSES ON PATHOGEN REMOVAL; (8) FACTORS THAT AFFECT EFFICIENCY OF CHLORINATION ON PATHOGEN REMOVAL; (9) WAYS TO MINIMIZE DISEASE RISKS TO ANIMALS GRAZING ON WASTEWATER-IRRIGATED PASTURE; (10) INSECT CONTROL AT THE LAND SITE; (11) SPECIFIC PATHOGENS CONTAINED IN WASTEWATER; (12) INFECTIVE DOSES; AND (13) WAYS TO REDUCE PATHOGENS IN AEROSOLS. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003514

ERIC ACCESSION NUMBER: ED162827

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. COSTING LAND APPLICATION SYSTEMS - MODULE 10.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *COST EFFECTIVENESS; *ECONOMICS; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; POSTSECONDARY EDUCATION; SANITATION; *WASTE DISPOSAL; WASTES; LAND APPLICATION; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 52P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE EXPANDS ON THE CONCEPTS OF COST ESTIMATION AND COMPARISON OF COSTS AMONG VARIOUS TREATMENT ALTERNATIVES WHICH WERE PRESENTED IN A PREVIOUS MODULE. THE NEED FOR USEFUL PUBLISHED COST DATA IS STRESSED. CRITERIA FOR SELECTING COST REFERENCES ARE PRESENTED, AND EXAMPLES OF CHARTS AND GRAPHS FROM SEVERAL OF THESE ARE USED IN COMPARING LAND APPLICATION AND CONVENTIONAL TREATMENT SCHEMES. SEVERAL CRITICAL COST FACTORS ARE IDENTIFIED. A SUMMARY OF GENERALIZED COST COMPARISONS IS MADE. SEVERAL PERTINENT COST REFERENCES ARE LISTED, AND THE IMPORTANCE OF KEEPING UP TO DATE WITH NEW REFERENCE MATERIAL IS POINTED OUT TO LAND TREATMENT SITE DESIGNERS. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003515

ERIC ACCESSION NUMBER: ED162828

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. POTENTIALLY TOXIC ELEMENTS - MODULE 11.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: CHEMISTRY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *LEARNING MODULES; *POLLUTION; POSTSECONDARY EDUCATION; SANITATION; *WASTE DISPOSAL; WASTES; LAND APPLICATION; *TOXICITY; *WASTEWATER TREATMENT; *TOXIC SUBSTANCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 70P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: FIVE ELEMENTS ARE IDENTIFIED AS BEING POTENTIALLY HAZARDOUS IN THIS MODULE. THESE ARE BORON, CADMIUM, COPPER, MOLYBDENUM, AND NICKEL. THE HAZARDS TO PLANTS AND ANIMALS POSED BY THESE ELEMENTS ARE DISCUSSED IN SOME DETAIL. THE SOURCES OF TOXIC ELEMENTS IN SEWAGE AND THE FACTORS THAT EFFECT THE UPTAKE OF TOXIC ELEMENTS BY SEWAGE SLUDGE ARE ALSO DISCUSSED. METHODS OF COMPUTING ALLOWABLE SLUDGE LOADING RATES TO LAND ARE DISCUSSED AND COMPARED. SLUDGE LOADING ON THE BASIS OF POTENTIALLY TOXIC ELEMENTS IS COMPARED TO THE NITROGEN BASIS AND THE SPECIFIC LIMITATIONS WHICH CADMIUM MAY EXERT. (BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003516

ERIC ACCESSION NUMBER: ED162829

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. WASTE APPLICATION SYSTEMS - MODULE 12, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *AGRICULTURE; ENVIRONMENT; *LAND USE; *LEARNING MODULES; SANITATION; SCIENCE EDUCATION; *WASTE DISPOSAL; WASTES; *WATER RESOURCES; *LAND APPLICATION; *LAND APPLICATION SYSTEMS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 59P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: LAND APPLICATION SYSTEMS ARE DISCUSSED WITH REFERENCE TO THE OPTIONS AVAILABLE FOR APPLYING WASTEWATER AND SLUDGE TO THE SITE. SPRAY SYSTEMS, SURFACE FLOW METHODS, AND SLUDGE APPLICATION SCHEMES ARE ALL INCLUDED WITH DISCUSSIONS OF THE ADVANTAGES AND DISADVANTAGES OF EACH OPTION WITHIN THESE CATEGORIES. A DISTINCTION IS MADE BETWEEN THE CHOICE OF TREATMENT METHOD AND THE APPLICATION SYSTEM. THE SELECTION OF AN APPLICATION SYSTEM IS A FUNCTION OF THE TREATMENT ALTERNATIVE. SELECTION OF ALTERNATIVE IS MADE ON THE BASIS OF FUNDAMENTAL SOIL, PLANT, WASTE AND MANAGEMENT FACTORS POINTING TO OVERLAND FLOW, RAPID INFILTRATION, OR IRRIGATION AS MOST APPROPRIATE FOR THE GIVEN SITUATION. APPLICATION SYSTEMS DESCRIBED IN THIS MODULE INCLUDE SEVEN TYPES OF SPRINKLER IRRIGATION TECHNIQUES, GATED PIPE, THREE DITCH SYSTEMS, AND THE THREE MOST COMMON FIELD SURFACE IRRIGATION METHODS. SLUDGE SPRAYING, SPREADING AND SUBSURFACE INJECTION ARE OUTLINED. ONE IMPORTANT ASPECT OF APPLICATION SYSTEM DESIGN IS UNIFORMITY OF WASTEWATER CONTACT WITH THE TREATMENT MEDIUM. THIS TOPIC IS ADDRESSED FROM A THEORETICAL STANDPOINT AND RELATED TO THE PRACTICAL SITUATION. A BRIEF DISCUSSION OF THE SPECIAL PROBLEMS ENCOUNTERED IN OVERLAND FLOW AND RAPID INFILTRATION SYSTEMS ALSO IS INCLUDED. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003517

ERIC ACCESSION NUMBER: ED162830

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. NON-CROP AND FOREST SYSTEMS - MODULE 13, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: AGRICULTURE; ENVIRONMENT; *FORESTRY; *LAND USE; *LEARNING MODULES; SANITATION; SCIENCE EDUCATION; *TURF MANAGEMENT; *WASTE DISPOSAL; WASTES; *LAND APPLICATION

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 91P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE DISCUSSES THE CHARACTERISTICS OF ALTERNATE SITES AND MANAGEMENT SCHEMES AND ATTEMPTS TO EVALUATE THE EFFICIENCY OF EACH ALTERNATIVE IN TERMS OF WASTE TREATMENT. THREE TYPES OF NON-CROP LAND APPLICATION ARE DISCUSSED: (1) FOREST LANDS; (2) PARK AND RECREATIONAL APPLICATION; AND (3) LAND RECLAMATION IN SURFACE OR STRIP MINED AREAS. (BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001 (NO PRICE QUOTED)

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003518

ERIC ACCESSION NUMBER: ED162831

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM.

CASE STUDIES REVIEWED - MODULE 14.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *AGRICULTURE; *CASE STUDIES; ENVIRONMENT; *LAND USE; *LEARNING MODULES; SANITATION; SCIENCE EDUCATION; *WASTE DISPOSAL; WASTES; *LAND APPLICATION

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 97P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE PROVIDES INFORMATION ABOUT 14 EXISTING LAND APPLICATION SYSTEMS. EACH CASE STUDY GIVES THE LOCATION AND DESCRIPTION OF THE SYSTEM, VOLUME TREATED, CLIMATE AND SOIL TYPE, COST, LAND AREA, AND OTHER DATA. A BRIEF COMMENT ABOUT THE SYSTEM IS GIVEN AS WELL AS A MORE DETAILED DISCUSSION. REFERENCES ARE CITED WHICH MAY BE USED TO EXAMINE 100 OR MORE OTHER SITES. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003519

ERIC ACCESSION NUMBER: ED162832

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. NITROGEN CONSIDERATIONS - MODULE 15, OBJECTIVES, SCRIPT AND BOOKLET.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: BIOLOGY; *CHEMISTRY; ENVIRONMENT; *LAND USE; *LEARNING MODULES; SANITATION; SCIENCE EDUCATION; *SOIL SCIENCE; *WASTE DISPOSAL; WASTES; *LAND APPLICATION; *NITROGEN

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 68P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE EXPANDS ON THE INTRODUCTORY DISCUSSION OF NITROGEN IN OTHER MODULES. THE VARIOUS CHEMICAL FORMS OF NITROGEN FOUND IN LAND TREATMENT SYSTEMS ARE DEFINED. INPUTS FROM WASTE APPLICATION AS WELL AS NATURAL SOURCES ARE QUANTIFIED FOR TYPICAL SITUATIONS. A DISCUSSION OF NITROGEN TRANSFORMATIONS IN THE SOIL INCLUDES MINERALIZATION AND IMMOBILIZATION PROCESSES (ORGANIC-INORGANIC TRANSFORMATIONS). THE IMPORTANCE OF CARBON TO NITROGEN RATIO OF APPLIED WASTE IS EMPHASIZED IN DETERMINING WHAT REACTIONS WILL OCCUR IN THE SOIL. POSSIBLE LOSSES AND REMOVALS OF NITROGEN FROM A LAND TREATMENT SYSTEM ARE DISCUSSED. ALL OF THE ABOVE FACTORS ARE COMBINED INTO A MASS BALANCE IN DETERMINING WASTEWATER AND SLUDGE LOADINGS, ON A NITROGEN BASIS, FOR TYPICAL SITUATIONS. DATA ON NITROGEN LOADINGS AND REMOVALS FROM VARIOUS EXISTING SYSTEMS ARE SUMMARIZED IN THE FINAL SECTION OF THE MODULE. AN ILLUSTRATION OF SHORT-TERM NITROGEN LOADING CALCULATION, USING THE DECAY SERIES CONCEPT, IS PRESENTED IN THE APPENDIX. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003520

ERIC ACCESSION NUMBER: ED162833

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. LEGAL ASPECTS - MODULE 16.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *ENVIRONMENT; FEDERAL LEGISLATION; *LAND USE; *LAWS; *LEARNING MODULES; SANITATION; SCIENCE EDUCATION; STATE LEGISLATION; *WASTE DISPOSAL; WASTES; WATER POLLUTION CONTROL; *LAND APPLICATION

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 137P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE SUMMARIZES LAWS THAT ARE RELEVANT TO THE LAND APPLICATION OF WASTES, FOCUSING ON THE APPLICABLE FEDERAL LAWS AND REPRESENTATIVE STATE REGULATIONS FROM DIFFERENT AREAS OF THE COUNTRY. THE MODULE DESCRIBES THE 10 POINTS OF PUBLIC LAW 92-500, THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972, THAT RELATE TO LAND APPLICATION. IT DESCRIBES THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 WHICH REQUIRES THE SUBMISSION OF FORMAL ENVIRONMENTAL IMPACT STATEMENTS FOR ALL PROJECTS THAT RECEIVE FEDERAL FUNDS. IT DESCRIBES THE SAFE DRINKING WATER ACT WHICH ESTABLISHES NATIONAL PRIMARY DRINKING WATER STANDARDS TO PROTECT THE PUBLIC HEALTH AND WELFARE. IT DESCRIBES THE PROVISIONS OF THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976 WHICH ESTABLISHES ACCEPTABLE PRACTICES FOR THE LAND DISPOSAL OF SLUDGES. FINALLY, THE MODULE GIVES A BRIEF OVERVIEW OF THE STATES WHICH HAVE GUIDELINES FOR LAND TREATMENT OF WASTES, FOCUSING ON FLORIDA, TEXAS, PENNSYLVANIA, CALIFORNIA AND MINNESOTA--EACH FROM A DIFFERENT REGION OF THE COUNTRY, TO EXAMINE THEIR REGULATIONS MORE CLOSELY. THE MODULE SUMMARIZES WATER RIGHTS LAWS IN THE UNITED STATES AS THEY PERTAIN TO LAND APPLICATION. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003521

ERIC ACCESSION NUMBER: ED162834

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. ORGANIC MATTER - MODULE 17, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: BIOLOGY; ENVIRONMENT; *LAND USE; *LEARNING MODULES; *ORGANIC CHEMISTRY; SANITATION; SCIENCE EDUCATION; SOIL SCIENCE; *WASTE DISPOSAL; *WASTES; *LAND APPLICATION; *ORGANIC COMPOUNDS

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 48P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE SKETCHES OUT THE IMPACT OF SEWAGE ORGANIC MATTER ON SOILS. FOR CONVENIENCE, THAT ORGANIC MATTER IS SEPARATED INTO THE READILY DECOMPOSABLE COMPOUNDS AND THE MORE RESISTANT MATERIAL (VOLATILE SUSPENDED SOLIDS, REFRACTORY ORGANICS, AND SLUDGES). THE FATES OF THOSE ORGANICS ARE REVIEWED ALONG WITH LOADING RATES AND RECOMMENDED SOIL CONDITIONS. LABORATORY STUDIES INDICATE THAT SOME SOIL SYSTEMS ARE CAPABLE OF OXIDIZING AS MUCH AS 8000 LBS COD/ACRE-DAY IF SURFACE CLOGGING IS AVOIDED, MACROPORE SPACE IS SUFFICIENT, OPTIMUM MOISTURE LEVELS ARE MAINTAINED, AND ADEQUATE SOIL AERATION IS ASSURED. MORE STABLE ORGANIC MATTER GENERALLY IS NOT PRESENT IN QUANTITIES THAT ARE SIGNIFICANTLY GREATER THAN THE NORMAL LOSSES FROM PRODUCTIVE SOILS. USUALLY THE ACTUAL AMOUNT OF ORGANIC MATTER THAT IS ADDED THROUGH LAND APPLICATION IS SMALL COMPARED TO THE AMOUNT OF NATIVE ORGANIC MATTER PRESENT. ALSO, THE NEWLY ADDED ORGANIC MATTER DECOMPOSES MORE RAPIDLY THAN NATIVE ORGANIC MATTER. THESE FACTORS, COMBINED WITH THE RESTRICTIVE LOAD LIMITS IMPOSED BY THE NITROGEN CONTENT OF WASTES, KEEP THE NET ACCUMULATION OF ORGANIC MATTER QUITE LOW IN HIGHLY PRODUCTIVE SOILS. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003522

ERIC ACCESSION NUMBER: ED162835

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. MONITORING AT LAND APPLICATION SITES - MODULE 18, OBJECTIVES, SCRIPT, AND BOOKLET.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *ENVIRONMENT; *LAND USE; *LEARNING MODULES; POLLUTION; SANITATION; SCIENCE EDUCATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; *LAND APPLICATION; *MONITORING

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT

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DESCRIPTIVE NOTE: 71P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE SUMMARIZES FOUR MAJOR REASONS FOR EMPLOYING MONITORING DURING DESIGN AND OPERATION OF A LAND APPLICATION SITE: DOCUMENTATION OF EXISTING WATER QUALITY AND SYSTEM PERFORMANCE, CONFIRMATION OF DESIGN PARAMETERS, PROVISION OF DATA FOR FUTURE DESIGNS AND FOR MANAGEMENT DECISIONS. MONITORING REQUIREMENTS ARE EXAMINED FOR DIFFERENT LAND TREATMENT OPTIONS--OVERLAND FLOW SITES AND OTHERS EMPLOYING COLLECTION OF SURFACE RUNOFF, UNDERDRAINED SITES, RAPID INFILTRATION SITES WITH RECOVERY WELLS, AND DOWNSLOPE EMERGENCE OF TREATED EFFLUENT FROM IRRIGATION SITES. METHODS OF TAKING WATER SAMPLES AND SOIL MOISTURE MEASUREMENTS ARE DISCUSSED. WELLS, LYSIMETERS, TENSIOMETERS, AND PIEZOMETERS ARE DESCRIBED IN CONJUNCTION WITH THIS SAMPLING. MONITORING OF PARAMETERS OTHER THAN WATER IS DISCUSSED BRIEFLY. A VERY BRIEF SUMMARY OF GOVERNMENTAL REGULATIONS PERTAINING TO MONITORING IS INCLUDED. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003523

ERIC ACCESSION NUMBER: ED162836

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. PHOSPHORUS CONSIDERATIONS - MODULE 19, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *CHEMISTRY; ENVIRONMENT; *LAND USE; *LEARNING MODULES; SANITATION; SCIENCE EDUCATION; SOIL SCIENCE; *WASTE DISPOSAL; *WASTES; *PHOSPHORUS; *LAND APPLICATION

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 41P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THE TREATMENT OF WASTEWATER PHOSPHORUS VIA LAND APPLICATION INCLUDES BOTH CHEMICAL AND BIOLOGICAL MECHANISMS. CHEMICALLY, PHOSPHORUS REACTS WITH IRON, ALUMINUM, AND CALCIUM COMPOUNDS IN THE SOIL PROVIDING EFFICIENT REMOVAL OVER A WIDE RANGE OF PH VALUES. PHOSPHORUS IS ALSO ABSORBED BY ROOTED PLANTS WHICH, UPON HARVEST, CONSTITUTE A FURTHER REMOVAL MECHANISM. THE GENERAL PRINCIPLES OF PHOSPHORUS INTERACTIONS BETWEEN SOIL AND WASTEWATER ARE ILLUSTRATED, AND THE MASS BALANCE IS DERIVED FOR A TYPICAL LOADING RATE AND APPLICATION SEASON. SOIL P MOVEMENT AND RETENTION ARE DISCUSSED, WITH PARTICULAR REFERENCE TO THE CHEMICAL ENVIRONMENT NECESSARY TO PRODUCE MOVEMENT OF PHOSPHORUS AMONG THE THREE POSSIBLE CATEGORIES: DISSOLVED, LABILE, AND FIXED. CROP UPTAKE AND SURFACE RUNOFF ARE EXAMPLES OF OTHER MECHANISMS OF PHOSPHORUS REMOVAL WHICH ARE DISCUSSED IN THIS MODULE. APPLICATION OF DOMESTIC SEWAGE EFFLUENTS AT A RATE OF 2 INCHES/WK FOR 30 WEEKS RESULTS IN ANNUAL PHOSPHORUS ADDITIONS OF APPROXIMATELY 140 LB P/ACRE. AT THIS RATE, MANY SOILS ARE CAPABLE OF EFFICIENT PHOSPHORUS REMOVAL FOR PERIODS RANGING FROM 20 TO 50 YEARS OR MORE. RAPID INFILTRATION SYSTEMS, WITH ANNUAL APPLICATIONS OF 1500 LB P/ACRE OR MORE, ARE GENERALLY LESS EFFICIENT IN PHOSPHORUS REMOVAL BUT VARY CONSIDERABLY DEPENDING ON SPECIFIC SITE CHARACTERISTICS. RESULTS FROM EXISTING LAND APPLICATION SYSTEMS ARE CITED TO ILLUSTRATE THE BASIC PRINCIPLES OF PHOSPHORUS REMOVAL. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003524

ERIC ACCESSION NUMBER: ED162837

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. CROP SELECTION AND MANAGEMENT ALTERNATIVES - MODULE 20, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *AGRICULTURE; ENVIRONMENT; *FIELD CROPS; *LAND USE; *LEARNING MODULES; PLANT SCIENCE; SANITATION; SCIENCE EDUCATION; *WASTE DISPOSAL; WASTES; *LAND APPLICATION; *MANAGEMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 87P.; FOR RELATED DOCUMENTS, SEE SE 025 014-035; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MODULE ENUMERATES THE BENEFITS TO BE DERIVED FROM CROPPING AT A WASTE APPLICATION SITE AND CRITERIA TO BE USED IN SELECTING A CROP FOR USE IN A PARTICULAR SITUATION. FOLLOWING BASIC DISCUSSIONS OF THE REQUIREMENTS OF VARIOUS CROPS FOR WATER, SOIL-PLANT-AIR MOISTURE POTENTIALS, CROP WATER TOLERANCE, NUTRIENT REMOVALS BY VARIOUS CROPS, AND TOLERANCE TO NUTRIENTS AND SALTS, PRACTICAL MANAGEMENT TECHNIQUES ARE DISCUSSED WHICH WILL EXTEND THE USEFULNESS OF CROP SYSTEMS IN LAND TREATMENT OF WASTES. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003525

ERIC ACCESSION NUMBER: ED162838

PUBLICATION DATE: JAN 78

TITLE: LAND APPLICATION OF WASTES: AN EDUCATIONAL PROGRAM. DRAINAGE FOR LAND APPLICATION SITES - MODULE 21, OBJECTIVES, AND SCRIPT.

PERSONAL AUTHOR: CLARKSON, W. W.; AND OTHERS

INSTITUTION CODE: BBB11150

SPONSORING AGENCY CODE: BBB05187; BBB06039

DESCRIPTOR: *AGRICULTURE; ENVIRONMENT; *LAND USE; *LEARNING MODULES; SANITATION; SCIENCE EDUCATION; *SOIL SCIENCE; *WASTE DISPOSAL; WASTES; *DRAINAGE; *LAND APPLICATION

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 41P.; FOR RELATED DOCUMENTS, SEE SE 025 014-034; NOT AVAILABLE IN HARD COPY DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEAPR79

ABSTRACT: DRAINAGE FOR LAND TREATMENT SITES MUST BE EVALUATED WITH RESPECT TO THE PURPOSE THE SYSTEM IS MEANT TO ACHIEVE. OFF-SITE DRAINAGE CONTROLS THE FLOW OF STORM RUNOFF ONTO THE SITE OR GROUNDWATER INCURSION INTO THE SOIL WITHIN THE SITE. ON-SITE DRAINAGE IS EMPLOYED FOR A VARIETY OF REASONS. THESE TWO AREAS OF DRAINAGE CONTROL MUST BE DESIGNED AS A SYSTEM TO OBTAIN THE DESIRED EFFLUENT QUALITY FROM THE LAND TREATMENT SYSTEM. SURFACE DRAINAGE TECHNIQUES OFTEN USED FOR THE CONTROL OF WATER INCLUDE DIVERSIONS, RANDOM SURFACE DRAINS, WATERWAYS, AND DITCHES. SUBSURFACE DRAINAGE IS GENERALLY ACCOMPLISHED THROUGH THE USE OF DRAIN PIPING WITH MATERIALS SUCH AS PLASTIC, CLAY, AND CONCRETE. THESE TECHNIQUES WILL GENERALLY MAKE UP THE DRAINAGE SYSTEM. THE OBJECTIVES OF DRAINAGE SYSTEMS AS THEY RELATE TO LAND TREATMENT SITES ARE DISCUSSED, INCLUDING SOME FLEXIBLE OPERATING PATTERNS WHICH CAN BE INCORPORATED THROUGH THE USE OF ON-SITE DRAINAGE. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900500

AVAILABILITY: VAN NOSTRAND REINHOLD, 450 WEST 33RD STREET, NEW YORK, N.Y. 10001 (NO PRICE QUOTED)

INSTITUTION NAME: STATE UNIV. OF NEW YORK, ITHACA. COLL. OF AGRICULTURE AND LIFE SCIENCES AT CORNELL UNIV.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003526

ERIC ACCESSION NUMBER: ED162865

PUBLICATION DATE: FEB 78

TITLE: FUNDAMENTAL RESEARCH NEEDS FOR WATER AND WASTEWATER TREATMENT SYSTEMS. PROCEEDINGS OF A CONFERENCE (ARLINGTON, VIRGINIA, DECEMBER 15, 1977).

PERSONAL AUTHOR: SHERRARD, J. H., ED.

INSTITUTION CODE: BBB07746

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: CONFERENCE REPORTS; *ENGINEERING; *ENVIRONMENT; *RESEARCH NEEDS; TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT; *WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 107P.

ISSUE: RIEAPR79

ABSTRACT: PAPERS ARE PRESENTED IDENTIFYING FUNDAMENTAL RESEARCH NEEDS IN WATER AND WASTEWATER TREATMENT BY INDUSTRIAL USERS OF TECHNOLOGY, INDUSTRIAL USERS OF RESEARCH, A MUNICIPAL WATER DEPARTMENT, A CONSULTING ENGINEER, CONGRESS, AND THE EPA. AREAS OF RESEARCH NEEDS ADDRESSED INCLUDE: (1) MICROBIAL, VIRAL, AND ORGANIC CONTAMINANTS; (2) BIOLOGICAL PROCESSES; (3) PHYSIOCHEMICAL PROCESSES; (4) CONTROL OF WASTEWATER TREATMENT PLANTS; (5) SLUDGE DISPOSAL SYSTEMS; AND (6) WATER QUALITY. IN ADDITION,

RESEARCH ACTIVITIES IN ENVIRONMENTAL ENGINEERING BEING CONDUCTED BY THE NATIONAL SCIENCE FOUNDATION ARE IDENTIFIED. (BB)

INSTITUTION NAME: ASSOCIATION OF ENVIRONMENTAL ENGINEERING PROFESSORS.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003527

ERIC ACCESSION NUMBER: ED162867

PUBLICATION DATE: AUG 73

TITLE: HANDBOOK FOR MONITORING INDUSTRIAL WASTEWATER.

INSTITUTION CODE: BBB16141

SPONSORING AGENCY CODE: BBB16142

DESCRIPTOR: ENVIRONMENT; *INDUSTRY; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *MANUALS; POLLUTION; *POSTSECONDARY EDUCATION; SCIENCE EDUCATION; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; *MONITORING; WASTEWATER TREATMENT; *INDUSTRIAL WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 192P.

ISSUE: RIEAPR79

ABSTRACT: THIS MANUAL FOR INDUSTRIAL WASTEWATER MONITORING COVERS THE PHILOSOPHY OF MONITORING NEEDS, PLANNING, SAMPLING, MEASURING, AND ANALYSIS. SUFFICIENT DETAIL IS GIVEN FOR THOSE WHO WISH TO EXPLORE MORE DEEPLY SOME OF THE PRACTICAL AND THEORETICAL ASPECTS OF ANY OF THE PHASES OF A MONITORING PROGRAM. A LOGICAL PROCEDURE IS SUGGESTED AND DIRECTION GIVEN FOR THOSE RESPONSIBLE FOR INDUSTRIAL PLANT WASTE CONTROL PROGRAMS. AUTOMATED SAMPLING, MEASURING, AND ANALYTICAL DEVICES ARE DESCRIBED AND METHODS OF USE OUTLINED. MANUAL PROCEDURES AND NON-AUTOMATED METHODS ARE ALSO PRESENTED. USE OF THE COLLECTED DATA IS DISCUSSED. SPECIAL CONSIDERATIONS FOR INDUSTRIAL-MUNICIPAL JOINT TREATMENT ARE BRIEFLY DESCRIBED. (AUTHOR/BB)

INSTITUTION NAME: ASSOCIATED WATER & AIR RESOURCES ENGINEERS, INC., NASHVILLE, TENN.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. OFFICE OF TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003528

ERIC ACCESSION NUMBER: ED162868

PUBLICATION DATE: OCT 77

TITLE: PROCESS DESIGN MANUAL FOR LAND TREATMENT OF MUNICIPAL WASTEWATER.

PERSONAL AUTHOR: CRITES, R.; AND OTHERS

INSTITUTION CODE: BBB16150

SPONSORING AGENCY CODE: BBB05187; BBB16142; FGK21416

DESCRIPTOR: ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND USE; *MANUALS; POLLUTION; *POSTSECONDARY EDUCATION; SCIENCE EDUCATION; UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES; LAND APPLICATION; *WASTEWATER TREATMENT; *LAND APPLICATION SYSTEMS

EDRS PRICE: EDRS PRICE MF-$1.16 HC-$31.47 PLUS POSTAGE.

DESCRIPTIVE NOTE: 598P.; FOR RELATED DOCUMENTS, SEE SE 025 369-370; CONTAINS OCCASIONAL LIGHT AND SMALL TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MANUAL PRESENTS A PROCEDURE FOR THE DESIGN OF LAND TREATMENT SYSTEMS. SLOW RATE, RAPID INFILTRATION, AND OVERLAND FLOW PROCESSES FOR THE TREATMENT OF MUNICIPAL WASTEWATERS ARE GIVEN EMPHASIS. THE BASIC UNIT OPERATIONS AND UNIT PROCESSES ARE DISCUSSED IN DETAIL, AND THE DESIGN CONCEPTS AND CRITERIA ARE PRESENTED. THE MANUAL INCLUDES DESIGN EXAMPLES AS WELL AS ACTUAL CASE STUDY DESCRIPTIONS OF OPERATIONAL SYSTEMS. INFORMATION ON PLANNING AND FIELD INVESTIGATIONS IS PRESENTED ALONG WITH THE PROCESS DESIGN CRITERIA FOR BOTH LARGE AND SMALL SCALE SYSTEMS. (AUTHOR/BB)

REPORT NUMBER: COE-EM-1110-1-501; EPA-625/1-77-008

INSTITUTION NAME: METCALF & EDDY, INC., PALO ALTO, CALIF.

SPONSORING AGENCY NAME: CORPS OF ENGINEERS, WASHINGTON, D.C.; DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.; ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. OFFICE OF TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003529

ERIC ACCESSION NUMBER: ED162869

PUBLICATION DATE: OCT 77

TITLE: PROCESS DESIGN MANUAL: WASTEWATER TREATMENT FACILITIES FOR SEWERED SMALL COMMUNITIES.

PERSONAL AUTHOR: LEFFEL, R. E.; AND OTHERS

INSTITUTION CODE: BBB16143

SPONSORING AGENCY CODE: BBB16142

DESCRIPTOR: *ENGINEERING; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MANUALS; POLLUTION; *POSTSECONDARY EDUCATION; SCIENCE EDUCATION; TECHNICAL REPORTS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); RURAL AREAS

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$26.11 PLUS POSTAGE.

DESCRIPTIVE NOTE: 496P.; FOR RELATED DOCUMENTS, SEE SE 025 368-370

ISSUE: RIEAPR79

ABSTRACT: THIS MANUAL ATTEMPTS TO DESCRIBE NEW TREATMENT METHODS, AND DISCUSS THE APPLICATION OF NEW TECHNIQUES FOR MORE EFFECTIVELY REMOVING A BROAD SPECTRUM OF CONTAMINANTS FROM WASTEWATER. TOPICS COVERED INCLUDE: FUNDAMENTAL DESIGN CONSIDERATIONS, FLOW EQUALIZATION, HEADWORKS COMPONENTS, CLARIFICATION OF RAW WASTEWATER, ACTIVATED SLUDGE, PACKAGE PLANTS, FIXED GROWTH SYSTEMS, WASTEWATER TREATMENT PONDS, FILTRATION AND MICROSCREENING, PHYSICAL-CHEMICAL TREATMENT, NUTRIENT REMOVAL, SLUDGE AND PROCESS SIDESTREAM HANDLING, DISINFECTION AND POSTAERATION, OPERATION AND MAINTENANCE, AND COST EFFECTIVENESS. A GLOSSARY IS ALSO INCLUDED. (AUTHOR/BB)

REPORT NUMBER: EPA-625/1-77-009

INSTITUTION NAME: CAMP, DRESSLER & MCKEE, INC., BOSTON, MASS.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. OFFICE OF TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003530

ERIC ACCESSION NUMBER: ED162870

PUBLICATION DATE: OCT 75

TITLE: PROCESS DESIGN MANUAL FOR NITROGEN CONTROL.

PERSONAL AUTHOR: PARKER, DENNY S.; AND OTHERS

INSTITUTION CODE: BBB16144

SPONSORING AGENCY CODE: BBB16142

DESCRIPTOR: *DESIGN; *ENGINEERING; ENVIRONMENT; ENVIRONMENTAL TECHNICIANS; INSERVICE EDUCATION; *INSTRUCTIONAL MATERIALS; MANUALS; POLLUTION; *POSTSECONDARY EDUCATION; SCIENCE EDUCATION; UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES; *NITROGEN; WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$26.11 PLUS POSTAGE.

DESCRIPTIVE NOTE: 476P.; FOR RELATED DOCUMENTS, SEE SE 025 369-369; CONTAINS OCCASIONAL SMALL AND LIGHT TYPE

ISSUE: RIEAPR79

ABSTRACT: THIS MANUAL PRESENTS THEORETICAL AND PROCESS DESIGN CRITERIA FOR THE IMPLEMENTATION OF NITROGEN CONTROL TECHNOLOGY IN MUNICIPAL WASTEWATER TREATMENT FACILITIES. DESIGN CONCEPTS ARE EMPHASIZED THROUGH EXAMINATION OF DATA FROM FULL-SCALE AND PILOT INSTALLATIONS. DESIGN DATA ARE INCLUDED ON BIOLOGICAL NITRIFICATION AND DENITRIFICATION, BREAKPOINT CHLORINATION, ION EXCHANGE, AND AIR STRIPPING. ONE CHAPTER PRESENTS THE CONCEPTS INVOLVED IN ASSEMBLING VARIOUS UNIT PROCESSES INTO RATIONAL TREATMENT TRAINS AND PRESENTS ACTUAL CASE EXAMPLES OF SPECIFIC TREATMENT SYSTEMS THAT INCORPORATE NITROGEN CONTROL PROCESSES. (AUTHOR/BB)

INSTITUTION NAME: BROWN & CALDWELL, WALNUT CREEK, CALIF.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. OFFICE OF TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003531

PUBLICATION DATE: 78

TITLE: THE SAFE DRINKING WATER ACT, SELF-STUDY HANDBOOK: COMMUNITY WATER SYSTEMS.

DESCRIPTOR: BIOLOGY; CHEMISTRY; *COMMUNITY HEALTH; ECOLOGICAL FACTORS; ENVIRONMENT; *SANITATION; *SANITATION IMPROVEMENT; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 145P.

ABSTRACT: THIS SELF-STUDY HANDBOOK IS DESIGNED TO ENABLE PERSONS RESPONSIBLE FOR WATER UTILITY SYSTEMS, PARTICULARLY IN REMOTE AREAS, TO COMPLY WITH PROVISIONS OF THE SAFE DRINKING WATER ACT. SPECIFICS OF THE ACT, REGULATIONS AND DEFINITIONS ARE DETAILED. THE HANDBOOK SPECIFIES FIVE GENERAL TYPES OF CONTAMINANT OF PUBLIC HEALTH IMPORTANCE: INORGANICS, ORGANICS, TURBIDITY, MICROBIOLOGICAL CONTAMINANTS, AND RADIOLOGICAL CONTAMINANTS. IT SPECIFIES MAXIMUM CONTAMINANT LEVELS OF THESE TYPES. THE BOOK DESCRIBES SAMPLING TECHNIQUES FOR THESE CONTAMINANTS, INCLUDING COLLECTION, PRESERVATION, AND TRANSPORT OF THE SAMPLE. A SECTION IS DEVOTED TO SAMPLE TESTING PROCEDURE. RECORDKEEPING METHODS ARE DESCRIBED. REPORTING, BOTH TO REGULATORY AGENCIES AND TO THE PUBLIC, IS DISCUSSED. COST CONSIDERATIONS OF COMPLIANCE WITH THE SAFE DRINKING WATER ACT ARE PRESENTED. PREVIEW QUESTIONS ARE PROVIDED AT THE END OF THE BOOK. (RE)

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 W. QUINCY AVE., DENVER, CO 80235 ($6.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW003532

PUBLICATION DATE: 78

TITLE: WORK PRACTICES FOR ASBESTOS: CEMENT PIPE MANUAL.

DESCRIPTOR: AIR POLLUTION CONTROL; ENVIRONMENTAL INFLUENCES; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; JOB SKILLS; POLLUTION; *PIPES; *POST SECONDARY EDUCATION; *SAFETY; *SPECIAL HEALTH PROBLEMS; WATER POLLUTION CONTROL; *WORK ENVIRONMENT; *ASBESTOS PIPES; *CEMENT PIPES

DESCRIPTIVE NOTE: 15P.

ABSTRACT: THIS MANUAL EXHIBITS PICTORIALLY THE GOOD PRACTICES AND GENERAL GUIDELINES TO ACHIEVE SAFE AND CLEAN JOB-SITE CONDITIONS WHEN WORKING WITH ASBESTOS CEMENT PIPE PRODUCTS. THE WORK PRACTICES RECOMMENDED ARE BASED ON DATA FOR CEILING DUST CONCENTRATIONS REPRESENTING SHORT PERIODS OF MAXIMUM EXPOSURE. (CS)

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 W. QUINCY AVE., DENVER, CO 80235 ($6.50)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW003533

PUBLICATION DATE: 77

TITLE: IRRIGATION BOOK LIST: IIIC PUBLICATION NO. 3.

DESCRIPTOR: *AGRICULTURE; AQUATIC PLANTS; *BIBLIOGRAPHIES; *CROPS; EARTH SCIENCE; ECONOMICS; EROSION; HYDROLOGY; *IRRIGATION; INSTRUCTIONAL MATERIALS; REFERENCE MATERIALS; *SOILS; *WATER RESOURCES; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 60P.

ABSTRACT: THIS PUBLICATION IS LIMITED TO BOOKS PRINTED SINCE 1960, THOUGH A FEW FROM BEFORE THAT DATE ARE INCLUDED. IT COVERS SUBJECTS DIRECTLY RELATED TO IRRIGATION, AS WELL AS MATERIAL ON SUPPORTING FIELDS SUCH AS STRESS PHYSIOLOGY, AGROMETEOROLGY, AND SOIL SCIENCE. WIDER ASPECTS, SUCH AS IRRIGATION ECONOMICS AND POLICY, ARE ALSO INCLUDED. THE PUBLICATION IS DIVIDED INTO THREE SECTIONS. LIST ONE INCLUDES TEXTBOOKS, HANDBOOKS, AND OTHER BOOKS MAINLY FROM PUBLISHING HOUSES. LIST TWO INCLUDES BOOKS OF REGIONAL INTEREST, PUBLICATIONS OF RESEARCH INSTITUTIONS, BOOKLETS, BULLETINS, ETC. LIST THREE INCLUDES BIBLIOGRAPHIES AND DICTIONARIES. JOURNALS ARE NOT INCLUDED IN THIS BOOKLET, BUT ARE THE SUBJECT OF A COMPANION VOLUME. (AUTHOR/BB)

AVAILABILITY: INTERNATIONAL IRRIGATION INFORMATION CENTRE, P.O. BOX 8500, OTTAWA, CANADA KIG 3H9 ($3.00)

INSTITUTION NAME: INTERNATIONAL IRRIGATION INFORMATION CENTRE.

IRIS ACCESSION NUMBER: EW003534

PUBLICATION DATE: 76

TITLE: CLEANING UP EUROPE'S WATERS: ECONOMICS, MANAGEMENT, AND POLICIES.

PERSONAL AUTHOR: JOHNSON, RALPH W.; BROWN, GARDNER M. JR.

DESCRIPTOR: ECOLOGICAL FACTORS; *ENVIRONMENT; *FOREIGN COUNTRIES; *POLLUTION; REGIONAL CHARACTERISTICS; *WATER POLLUTION CONTROL; WATER RESOURCES; EUROPE

DESCRIPTIVE NOTE: 313P.

ABSTRACT: EVOLVING CONCEPTS AND POLICIES TOWARD WATER POLLUTION IN EUROPE ARE DISCUSSED WITH HISTORICAL AND RECENT DEVELOPMENTS DOCUMENTED FOR THE COUNTRIES OF FRANCE, THE NETHERLANDS, WEST GERMANY, HUNGARY, SWEDEN, AND GREAT BRITAIN. VARIOUS PROCEDURES ARE EVALUATED FOR ECONOMIC ASPECTS. PATICULAR ATTENTION IS PAID TO THE CONCEPT OF THE WATER PARLIAMENT. NEEDS FOR FUTURE RESEARCH ARE PRESENTED. THE BOOK DOCUMENTS TRENDS IN EUROPE TOWARD COMPREHENSIVE WATER QUALITY MANAGEMENT LEADING TO UNIFIED MANAGMENT OF WATER QUALITY EITHER AT THE NATIONAL LEVEL OR THE BASIC LEVEL. WATER QUALITY MANAGEMENT IS NOT DOWN, HOWEVER, TO BE INTEGRATED WITH THE MANAGEMENT OF OTHER NATURAL RESOURCES. (RE)

AVAILABILITY: PRAEGER PUBLISHERS, INC., 200 PARK AVE., NEW YORK, NY 10017 ($25.00)

IRIS ACCESSION NUMBER: EW003535

PUBLICATION DATE: 77

TITLE: WATER POLLUTION CONTROL: ASSESSING THE IMPACTS AND COSTS OF ENVIRONMENTAL STANDARDS.

PERSONAL AUTHOR: LUKEN, RALPH A.; PECHAN, EDWARD H.

DESCRIPTOR: COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; *INDUSTRY; *LEGISLATION; *MUNICIPALITIES; *OBJECTIVES; POLLUTION; TECHNOLOGY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 180P.

ABSTRACT: THIS BOOK DISCUSSES THE LEGISLATIVE STATUTES THAT REQUIRE CERTAIN CATEGORIES OF INDUSTRIES AND MUNICIPALITIES TO MEET WATER POLLUTION DISCHARGE STANDARDS BASED ON SPECIFIC TECHNOLOGY OBJECTIVES. THE PROCEDURES USED CONSIST OF: (1) DESIGN OF A CONCEPTUAL APPROACH TO PROVIDE QUANTITATIVE INFORMATION; (2) EXERCISE OF QUANTITATIVE ANALYSIS TOOLS; (3) ANALYSIS OF RESULTS; AND (4) CONSIDERATION OF FINDINGS TO ASSESS POTENTIAL ALTERNATIVES. THESE INSIGHTS ARE PRESENTED IN THE FINAL CHAPTER OF THE BOOK AS SPECIFIC RECOMMENDATIONS FOR A CHANGE IN THE FEDERAL WATER POLLUTION CONTROL LEGISLATION. (CS)

AVAILABILITY: PRAEGER PUBLISHERS, INC., 200 PARK AVE., NEW YORK, NY 10017 ($25.00)

IRIS ACCESSION NUMBER: EW003536

PUBLICATION DATE: 78

TITLE: DISINFECTION OF WASTEWATER AND WATER FOR REUSE.

PERSONAL AUTHOR: WHITE, G. CLIFFORD

DESCRIPTOR: CHEMISTRY; *DISEASE CONTROL; *ENVIRONMENTAL INFLUENCES; EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; POLLUTION; PUBLIC HEALTH; *POST SECONDARY EDUCATION; *RECYCLING; *SANITARY FACILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *DISINFECTION; OPERATIONS (WASTEWATER); OPERATIONS (WATER); *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 387P.

ABSTRACT: THIS BOOK DESCRIBES THE LATEST STANDARDS ON DISINFECTION, ANALYTICAL MEASUREMENT, AND SYSTEM EVALUATION FOR WATER AND WASTEWATER TREATMENT FACILITIES. NEW METHODS OF UTILIZING CHLORINE, BROMINE, OZONE, HYPOCHLORITE, IODINE, AND ULTRAVIOLET RADIATION ARE OUTLINED. THE TEXT ALSO DISCUSSES METHODS OF DESIGNING A CHLORINATION-DECHLORINATION SYSTEM INCLUDING CHLORINE AND SULFUR DIOXIDE SUPPLY SYSTEMS, METERING AND CONTROL EQUIPMENT, AND MONITORING AND SAFETY EQUIPMENT. SAFETY TO THE OPERATOR AND ENVIRONMENT ARE STRESSED THROUGHOUT. (CS)

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 7625 EMPIRE DR., FLORENCE, KY 41042 ($22.50)

IRIS ACCESSION NUMBER: EW003537

PUBLICATION DATE: 70

TITLE: MANAGEMENT OF LAKES AND PONDS, SECOND EDITION.

PERSONAL AUTHOR: BENNETT, GEORGE W.

DESCRIPTOR: *BIOLOGY; CONSERVATION; *ECOLOGY; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *NATURAL RESOURCES; *POPULATION TRENDS; POST SECONDARY EDUCATION; RESEARCH; *WATER QUALITY; WATER POLLUTION CONTROL; FISH; GAME MANAGEMENT; *LAKES; *LIMNOLOGY; *PONDS

DESCRIPTIVE NOTE: 375P.

ABSTRACT: THIS BOOK DISCUSSES THE THEORY AND PRACTICE OF POND AND LAKE MANAGEMENT. FIRST THE TEXT PRESENTS A BRIEF VIEW OF FISH CULTURE AND A DISCUSSION OF ARTIFICIAL AQUATIC HABITATS AND NATURAL BODIES OF WATER. NEXT THE ECOLOGICAL INTERRELATIONSHIPS OF FISHES AND LAKE HABITATS ARE INVESTIGATED AND IMPLICATIONS FOR THE PROFFESSIONAL MANAGEMENT ARE DISCUSSED. A THOROUGH DISCUSSION OF THE CONCEPTS OF CARRYING CAPACITY, PRODUCTIVITY, GROWTH, REPRODUCTION, COMPETITION, AND PREDATION IS PROVIDED. THE TEXT CONCLUDES WITH A DISCUSSION OF SENSORY PERCEPTION AND BEHAVIOR. (CS)

AVAILABILITY: VAN NOSTRAND REINHOLD, CO., 7625 EMPIRE DR., FLORENCE, KY 41042 ($18.95)

IRIS ACCESSION NUMBER: EW003538

PUBLICATION DATE: 74

TITLE: NEW CONCEPTS IN WATER PURIFICATION.

PERSONAL AUTHOR: CULP, GORDON L.; CULP, RUSSELL L.

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *ENGINEERING; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; *TECHNOLOGY; WASTE DISPOSAL; *WATER QUALITY; *WATER POLLUTION CONTROL; *OPERATIONS (WATER); POTABLE WATER; *WATER TREATMENT

DESCRIPTIVE NOTE: 305P.

ABSTRACT: THIS BOOK IS CONCERNED WITH NEW TREATMENT TECHNOLOGY AVAILABLE TO PUBLIC WATER SUPPLY FACILITIES THAT RELATES TO PLANT DESIGN AND OPERATION. INCLUDED IN THE TEXT ARE DISCUSSIONS OF THE APPLICATIONS TO WATER DESIGN OF: (1) TUBE SETTLERS; (2) FULLY AUTOMATIC COAGULATION; (3) PROCESSES FOR REMOVAL OF HEAVY METALS; (4) GRANULAR-ACTIVATED CARBON TREATMENT; AND (5) IMPROVED PROCESSES AND PROCEDURES FOR VIRUS REMOVAL. OTHER TOPICS INCLUDE: (1) FILTRATION; (2) SLUDGE DISPOSAL; (3) DISINFECTION; AND (4) FACILITY DESIGN AND CONSTRUCTION. (CS)

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 7625 EMPIRE DR., FLORENCE, KY 41042 ($17.95)

IRIS ACCESSION NUMBER: EW003539

PUBLICATION DATE: 76

TITLE: HANDBOOK OF WATER RESOURCES AND POLLUTION CONTROL.

PERSONAL AUTHOR: GEHM, HARRY W.; BREGMAN, JACOB I.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *ENGINEERING; *INSTRUCTIONAL MATERIALS; LEGISLATION; MUNICIPALITIES; POLLUTION; *POST SECONDARY EDUCATION; *TECHNOLOGY; UTILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER RESOURCES; *OPERATIONS (WATER); WATER DISTRIBUTION; *WATER TREATMENT

DESCRIPTIVE NOTE: 840P.

ABSTRACT: THIS BOOK DESCRIBES ADVANCED TECHNIQUES FOR PREPARING AND DISTRIBUTING POTABLE WATER, ALONG WITH METHODS FOR OVERCOMING LIMITATIONS OF WATER TREATMENT PLANTS. COVERAGE INCLUDES TOPICS SUCH AS GLOBAL HYDROLOGY, WATER CHEMISTRY, MICROBIOLOGY, AQUATIC BIOLOGY, AND THE WASTE ASSIMILATIVE CAPACITY OF STREAMS. ADDITIONALLY, ENGINEERING CONSIDERATIONS NECESSARY FOR MEETING ALL CONSUMPTION DEMANDS AND FOR ACCOMMODATING CHANGES AND EXPANSIONS IN THE SYSTEM NETWORK ARE OUTLINED. (CS)

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 7625 EMPIRE DR., FLORENCE, KY 41042 ($39.50)

IRIS ACCESSION NUMBER: EW003540

TITLE: THE SEPTIC SYSTEM AND THE SANITARIAN.

DESCRIPTOR: *ENVIRONMENTAL TECHNICIANS; EQUIPMENT UTILIZATION; FILMS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; LAND USE; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; *SEPTIC SYSTEMS; *WASTE DISPOSAL;

*WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 16MM FILM - 14 MINUTES

ABSTRACT: THIS FILM DISCUSSES THE RESPONSIBILITIES AND ACTIVITIES OF ENVIRONMENTAL TECHNICIANS AND ENGINEERS INVOLVED IN THE DESIGN, INSTALLATION, AND REGULATION OF RESIDENTIAL SEPTIC SYSTEMS. (CS)

AVAILABILITY: E. J. CLARK FILMS, EDUCATION & A. V. SERVICE DIV., 15335 MIEROS LANE, BROOKFIELD, WI 53005 ($25.00 RENTAL FEE)

INSTITUTION NAME: E. J. CLARK FILMS.

IRIS ACCESSION NUMBER: EW003541

PUBLICATION DATE: 75

TITLE: THE SEPTIC SYSTEM - A HILLSIDE INSTALLATION.

DESCRIPTOR: *EQUIPMENT UTILIZATION; *FILMS; LAND USE; *INSTRUCTIONAL MATERIALS; JOB SKILLS; POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; *SANITATION; SAFETY; *SEPTIC SYSTEMS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 13 MINUTES - 16MM FILM

ABSTRACT: THIS FILM OUTLINES THE CONSIDERATIONS AND ACTIVITIES ENGAGED IN BY ENVIRONMENTAL TECHNICIANS AND SANITARY ENGINEERS TO SAFELY INSTALL A RESIDENTIAL SEPTIC SYSTEM ON A HILLSIDE. DESIGN AND CONSTRUCTION SAFETY PRECAUTIONS ARE STRESSED. (CS)

AVAILABILITY: E. J. CLARK FILMS, EDUCATION & A. V. SERVICE DIV., 15335 MIEROS LANE, BROOKFIELD, WI 53005 ($25.00 RENTAL FEE)

INSTITUTION NAME: E. J. CLARK FILMS.

IRIS ACCESSION NUMBER: EW003542

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL CHEMISTRY, VOL. I.

PERSONAL AUTHOR: EGLINTON, G.

DESCRIPTOR: *BIODEGRADATION; *CHEMICAL REACTIONS; *CHEMISTRY; ECOLOGY; *ENVIRONMENT; INSTRUCTIONAL MATERIALS; LAKES; *ORGANIC CHEMISTRY; POLLUTION; RESEARCH; RIVERS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 199P.

ABSTRACT: THIS BOOK, WRITTEN FOR CHEMISTS AND NONCHEMISTS INVOLVED IN ENVIRONMENTAL STUDIES, COVERS THE WORK DONE IN ENVIRONMENTAL ORGANIC CHEMISTRY DURING THE TWO OR THREE YEARS UP TO MID-1973, HOWEVER MUCH PRIOR WORK IS INCLUDED TO GIVE AN OVERVIEW. THE FIRST CHAPTER IS CONCERNED WITH THE DISTRIBUTION OF THE STABLE ISOTOPES OF THE LIGHT ELEMENTS, CARBON, SULPHUR, NITROGEN, HYDROGEN, AND OXYGEN, IN ENVIRONMENTS. CHAPTERS 2, 3, AND 4 COVER THE MAJOR TYPES OF AQUATIC ENVRIONMENTS: RIVERS AND LAKES; BOGS, MARSHES AND SWAMPS; AND OCEANS, FJORDS, AND ANOXIC BASINS, RESPECTIVELY. EACH OF THESE CHAPTERS CONTAINS SOME DISCUSSION OF BIOCHEMISTRY, NATURAL PRODUCT CHEMISTRY, CHEMICAL ECOLOGY, AND MICROBIOLOGY. ANALYTICAL TECHNIQUES ARE ALSO INCLUDED. FINALLY, CHAPTERS 5, 6, AND 7 DISCUSS IMPORTANT CLASSES OF COMPOUNDS: HYDROCARBONS, DDT AND PCB, AND 2, 4-DICHLOROPHENYLACETIC ACID. (AUTHOR/BB)

AVAILABILITY: THE AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW, WASHINGTON, D.C. 20036 ($22.50)

IRIS ACCESSION NUMBER: EW003543

PUBLICATION DATE: 76

TITLE: ACTINIDES IN THE ENVIRONMENT.

PERSONAL AUTHOR: FRIEDMAN, ARNOLD M.

DESCRIPTOR: *BIODEGRADATION; *DISPOSAL; *ENVIRONMENT; GROUNDWATER; *RADIOACTIVITY; RESOURCE MATERIALS; SOIL INCORPORATION; *SYMPOSIA; WASTEWATER DISPOSAL; *ACTINIDES; AMERICIUM; *PLUTONIUM

DESCRIPTIVE NOTE: 107P.

ABSTRACT: THE MOST HAZARDOUS RADIOACTIVE WASTES ARE THE LONGER-LIVED ACTINIDES, EXPECIALLY PLUTONIUM-239 AND AMERICIUM-241. THIS SYMPOSIUM ADDRESSES THE CURRENT STATE OF KNOWLEDGE ABOUT THE BEHAVIOR OF THESE ISOTOPES IN ROCKS, SOILS, GROUND WATER, AND BIOSYSTEMS. THE SIX PAPERS PRESENTED ARE ENTITLED THE ROLE OF ACTINIDE BEHAVIOR IN WASTE MANAGEMENT, MOISTURE AND SOLUTE TRANSPORT IN POROUS MEDIA, THE MIGRATION OF PLUTONIUM AND AMERICIUM IN THE LITHOSPHERE, BIOLOGICAL PATHWAYS AND CHEMICAL BEHAVIOR OF PLUTONIUM AND OTHER ACTINIDES IN THE ENVIRONMENT, APPLICATION OF THE BOX MODEL THEORY TO THE GEOPHYSICAL TRANSPORT OF PLUTONIUM DIOXIDE AND OKLO, AND EXPERIMENT IN LONG-TERM GEOLOGICAL STORAGE. (BB)

AVAILABILITY: THE AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW, WASHINGTON, DC 20036 ($14.25)

IRIS ACCESSION NUMBER: EW003544

PUBLICATION DATE: 77

TITLE: HANDBOOK OF ENVIRONMENTAL DATA ON ORGANIC CHEMICALS.

PERSONAL AUTHOR: VERSCHUEREN, KAREL

DESCRIPTOR: AIR POLLUTION CONTROL; *ANALYSIS; ECOSYSTEMS; *ENVIRONMENTAL CONTROL; *ORGANIC CHEMISTRY; *POLLUTANTS; *REFERENCE MATERIALS; *TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 659P.

ABSTRACT: THIS BOOK GIVES ENVIRONMENTAL DATA ON OVER ONE THOUSAND ORGANIC CHEMICALS. IT GIVES THRESHOLD LIMIT VALUES, CONTROL AND PROTECTION MEASURES AGAINST AIR AND WATER POLLUTION, AND BIOLOGICAL TOXICITY DATA. AIR POLLUTION FACTORS INCLUDE CONVERSION FACTORS, ODOR THRESHOLD VALUES, ATMOSPHERIC REACTIONS, NATURAL SOURCES AND BACKGROUND CONCENTRATIONS, MAN-MADE SOURCES AND GROUND LEVEL CONCENTRATIONS, EMISSION CONTROL DATA, AND METHODS OF SAMPLING AND ANALYSIS. WATER POLLUTION FACTORS INCLUDE BIODEGRADATION RATE, OXIDATION PARAMETERS, IMPACT ON TREATMENT PROCESSES, SURFACE AND UNDERGROUND WATER QUALITY SOURCES, WASTEWATER TREATMENT, AND SAMPLING AND ANALYSIS. ALSO INCLUDED ARE TOXICOLOGY DATA ON VARIOUS ORGANISMS AND PHYSICAL AND CHEMICAL DATA. (AUTHOR/BB)

AVAILABILITY: VAN NOSTRAND, REINHOLD CO., 300 PIKE ST., CINCINNATI, OH 45202 ($37.50)

IRIS ACCESSION NUMBER: EW003545

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL HEALTH CRITERIA I: MERCURY.

DESCRIPTOR: AIR POLLUTION CONTROL; *BIOCHEMISTRY; BIOLOGY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *METALS; *POLLUTION; *PUBLIC HEALTH; *RESEARCH; WATER POLLUTION CONTROL; *MERCURY

DESCRIPTIVE NOTE: 131P.

ABSTRACT: THE WORLD HEALTH ORGANIZATION PROVIDES IN THIS DOCUMENT A COMPILATION, REVIEW, AND EVALUATION OF AVAILABLE INFORMATION ON THE BIOLOGICAL EFFECTS OF MERCURY THAT INFLUENCE MAN'S HEALTH. INCLUDED IS A SUMMARY OF THE MAJOR ISSUES AND SUGGESTIONS FOR AREAS OF ADDITIONAL RESEARCH, THE FINDINGS ON WHICH THE EVALUATION OF THE HEALTH RISKS ARE BASED, AND THE RISKS FROM EXPOSURE TO THE SPECIFIC AGENT. REPRESENTATIVE CHAPTERS DISCUSS CHEMICAL AND PHYSICAL PROPERTIES OF MERCURY, SOURCES OF ENVIRONMENTAL POLLUTION, DISTRIBUTION AND TRANSFORMATION, METABOLISM, EXPERIMENTAL STUDIES, AND EPIDEMIOLOGICAL AND CLINICAL STUDIES OF THE EFFECTS. (CS)

AVAILABILITY: WHO PUBLICATIONS CENTRE, 49 SHERIDAN AVE., ALBANY, NY 12210 ($5.60)

INSTITUTION NAME: UNITED NATIONS ENVIRONMENT PROGRAMME.; WORLD HEALTH ORGANIZATION.

IRIS ACCESSION NUMBER: EW003546

PUBLICATION DATE: 11-01-78

TITLE: REPORT TO CONGRESS ON CONTROL OF COMBINED SEWER OVERFLOW IN THE UNITED STATES.

PERSONAL AUTHOR: WYCOFF, RONALD L.; AND OTHERS

DESCRIPTOR: *COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; GRANTS; LEGISLATION; POLLUTION; *URBAN ENVIRONMENT; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *SEWERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 226P. ORDER NO. PB 291 966

ABSTRACT: THIS REPORT PRESENTS BY STATE THE STATUS OF AWARDED GRANTS, REQUESTED GRANTS, AND THE ESTIMATED TIME REQUIRED TO ACHIEVE REQUIRED CONTROL OF COMBINED SEWER OVERFLOW POLLUTION. IT ALSO COMPARES DISCHARGES OF POLLUTANTS FROM TREATED MUNICIPAL EFFLUENT WITH COMBINED SEWER OVERFLOW AND ANALYZES ALTERNATIVE CONTROL TECHNOLOGIES. FINALLY, THE REPORT PRESENTS LEGISLATIVE ALTERNATIVES TO CONTROL POLLUTION FROM COMBINED SEWER OVERFLOW. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.50)

IRIS ACCESSION NUMBER: EW003547

PUBLICATION DATE: APR 78

TITLE: LAND TREATMENT OF WASTE EFFLUENTS. TECHNICAL REPORT NO. 48.

DESCRIPTOR: CONFERENCES; *ENVIRONMENTAL INFLUENCES; EQUIPMENT UTILIZATION; *LAND USE; POLLUTION; *PUBLIC HEALTH; RESEARCH; SOILS; SYSTEMS ANALYSIS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *LAND TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 149P. PROCEEDINGS OF A SYMPOSIUM AT THE CENTER OF ADULT EDUCATION, UNIVERSITY OF MARYLAND, APRIL 25-26, 1978; ORDER NO. PB 288 926

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT A 1978 SYMPOSIUM ON LAND TREATMENT OF WASTE EFFLUENTS. THE PRESENTATIONS SUMMARIZE THE STATE-OF-THE-ART RELATED TO THE PRACTICAL ASPECTS OF THE TREATMENT OF WASTEWATER BY LAND APPLICATION AND IDENTIFY THE SUITABLE APPROACHES FOR THE DESIGN OF SUCH LAND TREATMENT SYSTEMS. EXISTING SYSTEMS ARE CITED AS CASE STUDIES. ADDITIONAL TOPIC AREAS INCLUDE SOIL CHARACTERISTICS, PATHOGEN TRANSPORT, EQUIPMENT ALTERNATIVES, PERMITS AND ENFORCEMENT, AND ECOLOGICAL IMPACTS. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($7.25)

INSTITUTION NAME: U.S. DEPT. OF THE INTERIOR, OFFICE OF WATER RESEARCH AND TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003548

PUBLICATION DATE: 73

TITLE: DISPOSAL OF PHOTOGRAPHIC PROCESSING EFFLUENTS AND SOLUTIONS (J-28).

DESCRIPTOR: BIOCHEMISTRY; *CHEMICAL ANALYSIS; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LABORATORY

:CHNIQUES; *PHOTOGRAPHY; POLLUTION; *POST SECONDARY)UCATION; PUBLIC HEALTH; SANITATION; *WASTE DISPOSAL; /ATER POLLUTION CONTROL; *EFFLUENTS

:SCRIPTIVE NOTE: 20P.

:STRACT: THIS PUBLICATION PROVIDES INFORMATION FOR THE)OPER TREATMENT AND DISPOSAL OF PHOTOGRAPHIC PROCESSING ILUTIONS. TECHNIQUES ARE PRESENTED WHICH MAY BE USED TO GHTEN THE CHEMICAL WASTE LOAD INCLUDING DILUTION OF STES, SILVER RECOVERY, BLEACH REGENERATION, HOLDING TANKS, ND CONSERVATION OF PROCESSING SOLUTIONS. (CS)

'AILABILITY: EASTMAN KODAK CO., DEPT. 454, 343 STATE ST., ICHESTER, NY 14650 ($1.00)

STITUTION NAME: EASTMAN KODAK CO.

IS ACCESSION NUMBER: EW003549

JBLICATION DATE: DEC 73

ITLE: BOD5, FIVE-DAY BIOCHEMICAL OXYGEN DEMAND, AND COD, IEMICAL OXYGEN DEMAND (J-41).

:SCRIPTOR: *BIOCHEMISTRY; *CHEMICAL ANALYSIS; IVIRONMENTAL INFLUENCES; LABORATORY TECHNIQUES; HOTOGRAPHY; POLLUTION; PUBLIC HEALTH; SANITATION; *WASTE SPOSAL; *WATER POLLUTION CONTROL; *BIOCHEMICAL OXYGEN EMAND; *CHEMICAL OXYGEN DEMAND

:SCRIPTIVE NOTE: 12P.

:STRACT: THIS PUBLICATION IS ONE IN A SERIES WHICH SCUSSES THE DISPOSAL OF PHOTOGRAPHIC PROCESSING SOLUTIONS. IE INFORMATION HERE, PROVIDED IN TABULAR FORM, PRESENTS THE VE-DAY BIOCHEMICAL OXYGEN DEMAND AND CHEMICAL OXYGEN MAND VALUES FOR KODAK PHOTOGRAPHIC-PROCESSING CHEMICALS. S)

'AILABILITY: EASTMAN KODAK CO., DEPT. 454, 343 STATE ST.,)CHESTER, NY 14650 ($0.40)

STITUTION NAME: EASTMAN KODAK CO.

IS ACCESSION NUMBER: EW003550

JBLICATION DATE: OCT 74

TLE: IN SUPPORT OF CLEAN WATER - DISPOSING OF EFFLUENTS OM FILM PROCESSING (J-44).

:SCRIPTOR: *BIOCHEMISTRY; CHEMICAL ANALYSIS; NVIRONMENTAL INFLUENCES; LABORATORY PROCEDURES; HOTOGRAPHY; POLLUTION; PUBLIC HEALTH; *WASTE DISPOSAL; /ATER POLLUTION CONTROL; *EFFLUENTS

:SCRIPTIVE NOTE: 12P.

3STRACT: THIS PUBLICATION IS ONE IN A SERIES WHICH ISCUSSES THE DISPOSAL OF PHOTOGRAPHIC PROCESSING SOLUTIONS. IE INFORMATION HERE EVALUATES EFFLUENTS IN TERMS OF SEWER)DES AND STREAM STANDARDS. METHODS ARE SUGGESTED FOR EDUCING THE DISCHARGE OF WASTES. (CS)

'AILABILITY: EASTMAN KODAK CO., DEPT. 454, 343 STATE ST.,)CHESTER, NY 14650 ($0.40)

STITUTION NAME: EASTMAN KODAK CO.

IS ACCESSION NUMBER: EW003551

JBLICATION DATE: AUG 75

TLE: THE BIOLOGICAL TREATMENT OF PHOTOGRAPHIC PROCESSING -FLUENTS (J-46).

ERSONAL AUTHOR: DAGON, THOMAS J.

:SCRIPTOR: *BIOCHEMISTRY; CHEMICAL ANALYSIS; NVIRONMENTAL INFLUENCES; LABORATORY TECHNIQUES; HOTOGRAPHY; POLLUTION; PUBLIC HEALTH; *WASTE DISPOSAL; /ATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *EFFLUENTS

:SCRIPTIVE NOTE: 20P.

BSTRACT: THIS PAPER OUTLINES THE GENERAL CHARACTERISTICS F PHOTOGRAPHIC PROCESSING EFFLUENTS AND DESCRIBES THE XPERIMENTAL WORK CONDUCTED ON THE BIOLOGICAL TREATABILITY F THESE WASTES. IN ADDITION, SOME OF THE INPLANT TECHNIQUES HAT PROCESSORS CAN USE ARE PRESENTED. (CS)

VAILABILITY: EASTMAN KODAK CO., DEPT. 454, 343 STATE ST.,)CHESTER, NY 14650 ($0.40)

RIS ACCESSION NUMBER: EW003552

JBLICATION DATE: SEP 78

ITLE: GLOSSARY OF TERMS: INDEX (J-48).

ESCRIPTOR: *CHEMISTRY; *CHEMICAL NOMENCLATURE; NVIRONMENTAL INFLUENCES; *PHOTOGRAPHY; POLLUTION; *WASTE ISPOSAL; *WATER POLLUTION CONTROL

ESCRIPTIVE NOTE: 20P.

BSTRACT: THIS PUBLICATION LISTS AND DEFINES CHEMICAL, HOTOGRAPHIC, AND ENVIRONMENTAL TERMS AS THEY ARE USED IN HE KODAK LITERATURE SERIES ON THE DISPOSAL OF PHOTOGRAPHIC- ROCESSING SOLUTIONS. THE TERMS ARE CROSS-REFERENCED TO UBJECT MATTER IN THE SERIES. (CS)

VAILABILITY: EASTMAN KODAK CO., DEPT. 454, 343 STATE ST.,)CHESTER, NY 14650 ($0.40)

NSTITUTION NAME: EASTMAN KODAK CO.

IRIS ACCESSION NUMBER: EW003553

PUBLICATION DATE: 76

TITLE: HANDBOOK OF HYDRAULICS FOR THE SOLUTION OF HYDRAULIC ENGINEERING PROBLEMS.

PERSONAL AUTHOR: BRATER, ERNEST F.; KING, HORACE WILLIAMS

DESCRIPTOR: *COMPUTER PROGRAMS; *ENGINEERING; ENVIRONMENTAL INFLUENCES; EQUIPMENT; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; PIPES; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 391P.

ABSTRACT: THIS HANDBOOK PROVIDES INFORMATION ON TOPICS SUCH AS HYDROSTATICS, FLOW-THROUGH GATES, CULVERTS, WEIRS, AND FLOW IN PIPES AND OPEN CHANNELS. DISCUSSED IN DETAIL ARE SUCH ITEMS AS WATER HAMMER, UNSTEADY FLOW, FLOW MEASUREMENT, AND COASTAL HYDRAULICS. ADDITIONALLY, THIS DOCUMENT PROVIDES ESSENTIAL TABLES, FORMULAS, COMPUTER SOLUTIONS, AND OTHER REFERENCE AIDS WHICH ASSIST IN DIRECT SOLUTION OF ENGINEERING PROBLEMS. ALSO INCLUDED IS A DISCUSSION OF COMPUTER PROGRAMMING FOR THE SOLUTION OF HYDRAULIC PROBLEMS THAT INCLUDES FLOW CHARTS, PROGRAM STATEMENTS, AND OUTPUT. (CS)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MD 63011 ($22.80)

IRIS ACCESSION NUMBER: EW003554

PUBLICATION DATE: 78

TITLE: NEUTRALIZATION OF WASTE WATER BY PH CONTROL. MONOGRAPH 1.

PERSONAL AUTHOR: MOORE, RALPH L.

DESCRIPTOR: *CHEMICAL REACTIONS; COMPUTERS; COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; WASTE DISPOSAL; WATER POLLUTION CONTROL; WATER RESOURCES; *OPERATIONS (WASTEWATER); PH; *WASTEWATER TREATMENT; *NEUTRALIZATION

DESCRIPTIVE NOTE: 159P.

ABSTRACT: THIS MONOGRAPH DISCUSSES BASIC PH CONCEPTS SUCH AS CONTROL OF PH IN NEUTRALIZATION SYSTEMS, CHEMICAL REAGENTS USED FOR NEUTRALIZATION, TECHNIQUES FOR REAGENT MIXING AND USES OF COMPUTER SIMULATION TO DESIGN A NEUTRALIZATION SYSTEM. EACH CHAPTER IS FULLY ILLUSTRATED AND CONTAINS A BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: INSTRUMENT SOCIETY OF AMERICA, 400 STANWIX ST., PITTSBURGH, PA 15222 ($18.00)

IRIS ACCESSION NUMBER: EW003556

PUBLICATION DATE: 77

TITLE: AUDIOVISUALS ANALYTICAL METHODS MANUAL.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENTAL TECHNICIANS; *FILMSTRIPS; INSERVICE EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; ENVIRONMENT; *SUSPENDED SOLIDS; *TURBIDITY; *BIOCHEMICAL OXYGEN DEMAND

DESCRIPTIVE NOTE: 147P.

ABSTRACT: THIS DOCUMENT DESCRIBES AN AUDIOVISUAL PROGRAM DESIGNED TO PRESENT FOUR LABORATORY TESTS USED IN WASTEWATER TREATMENT. THE TRAINING PROGRAM CONSISTS OF SEVEN FILMSTRIPS AND FOUR AUDIO CASSETTES. THE FILMSTRIPS ARE ON SUSPENDED SOLIDS ANALYSIS, SETTLEABLE SOLIDS ANALYSIS, TURBIDITY ANALYSIS, BOD THEORY AND APPLICATION, THE DIRECT DILUTION TECHNIQUE AND FACTORS AFFECTING BOD TEST, MECHANICS OF THE BOD TEST, AND DO ANALYSIS AND DATA HANDLING. THIS DOCUMENT GRAPHICALLY PRESENTS EACH FRAME OF THE FILMSTRIPS ALONG WITH THE ACCOMPANYING NARRATION. THE FILM STRIPS RUN FROM 10 TO 30 MINUTES. (BB)

AVAILABILITY: NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR & STREAM IMPROVEMENT, INC., 260 MADISON AVE., NEW YORK, NY 10016 (COST FOR COMPLETE PROGRAM: $125.00 FOR MEMBERS; $250.00 FOR NON-MEMBERS

INSTITUTION NAME: NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC.

IRIS ACCESSION NUMBER: EW003557

PUBLICATION DATE: 72

TITLE: HANDBOOK OF CHLORINATION.

PERSONAL AUTHOR: WHITE, G. CLIFFORD

DESCRIPTOR: *CHEMICAL ANALYSIS; DISEASE CONTROL; ENGINEERING; *ENVIRONMENTAL INFLUENCES; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; PUBLIC HEALTH; UTILITIES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER QUALITY; *CHLORINATION

DESCRIPTIVE NOTE: 744P.

ABSTRACT: THIS BOOK DESCRIBES THE USE OF CHLORINE IN POTABLE WATER, WASTEWATERS, INDUSTRIAL PROCESS AND SWIMMING POOLS. IT PROVIDES THE CHEMISTRY OF EACH APPLICATION AND THE PRACTIAL TECHNIQUES OF CHLORINE RESIDUAL MANAGEMENT. CHAPTER TOPICS INCLUDE APPLICATIONS OF CHLORINE, FACILITY DESIGN FOR VARIOUS APPLICATIONS, OPERATION AND MAINTENANCE OF FACILITIES AND EQUIPMENT, SAFETY, AND COMPARISONS WITH OTHER CHEMICALS USED FOR SIMILAR PURPOSES. EACH CHAPTER CONTAINS A BIBLIOGRAPHY FOR REFERENCE. (CS)

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 7625 EMPIRE DR.,

FLORENCE, KY 41042 ($39.50)

IRIS ACCESSION NUMBER: EW003558

PUBLICATION DATE: 78

TITLE: SAFE DRINKING WATER: CURRENT AND FUTURE PROBLEMS.

PERSONAL AUTHOR: RUSSELL, CLIFFORD S.

DESCRIPTOR: *CONFERENCE REPORTS; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *LEGISLATION; POLLUTION; *PUBLIC HEALTH; TECHNOLOGY; *WATER POLLUTION CONTROL; WATER RESOURCES; *WATER QUALITY; *SAFE DRINKING WATER ACT; *WATER TREATMENT

DESCRIPTIVE NOTE: 641P. PROCEEDINGS OF A NATIONAL CONFERENCE IN WASHINGTON, D.C.

ABSTRACT: THIS DOCUMENT CONTAINS A SERIES OF PAPERS PRESENTED AT THE 1978 CONFERENCE ON DRINKING WATER. ADDRESSED ARE THE SCIENTIFIC, ECONOMIC, AND ADMINISTRATIVE ASPECTS OF THE PUBLIC POLICY PROBLEM RAISED BY THE NEW KNOWLEDGE SURROUNDING DRINKING WATER. TOPICS INCLUDE THE TECHNICAL BACKGROUND, COSTS AND FINANCING FOR COMPLIANCE WITH THE SAFE DRINKING WATER ACT, AND POLICY ALTERNATIVES. EACH PRESENTATION IS SUMMARIZED AND REFERENCES ARE INCLUDED WHERE APPROPRIATE. (CS)

AVAILABILITY: THE JOHN HOPKINS UNIVERSITY PRESS, HOMEWOOD, BALTIMORE, MD 21218 ($12.00)

IRIS ACCESSION NUMBER: EW003559

PUBLICATION DATE: 77

TITLE: ENVIRONMENT AND MAN, VOL. 6: THE CHEMICAL ENVIRONMENT.

PERSONAL AUTHOR: LENIHAN, JOHN; FLETCHER, WILLIAM W.

DESCRIPTOR: AIR POLLUTION CONTROL; *ARSENIC; ARSENICALS; ASBESTOS; *CHEMISTRY; ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LEAD; POISONS; POLLUTION; *POST SECONDARY EDUCATION; *TOXINS; WATER POLLUTION CONTROL; *AFLATOXINS; *HEAVY METALS; *MERCURY

DESCRIPTIVE NOTE: 163P.

ABSTRACT: IN THIS VOLUME, THE AUTHORS DISCUSS HAZARDS ARISING FROM THE CHEMICAL ENVIRONMENT, REVIEWING HISTORICAL DEVELOPMENTS, HARMFUL EFFECTS, CONTROL MEASURES, AND FUTURE PROSPECTS. THE FIRST CHAPTER IS ON NATURAL CYCLES OF THE ELEMENTS AND THEIR PERTURBATION BY MAN. IT COVERS SUCH TOPICS AS RESIDENCE TIMES IN THE ATMOSPHERE, WATER, AND SOIL; THE CARBON CYCLE; THE OXYGEN CYCLE; THE NITROGEN CYCLE; THE SULFER CYCLE; HEAVY METALS; AND THE PHOSPHORUS CYCLE. THE SECOND CHAPTER GIVES A HISTORY OF MERCURY AS A POLLUTANT, AND DISCUSSES THE TOXICOLOGICAL AND PHYSIOLOGICAL ASPECTS OF ORGANIC MERCURY COMPOUNDS IN FISH AND OTHER FOODS. CHAPTER THREE PRESENTS A HISTORY OF LEAD POISONING, AND COVERS SOURCES OF LEAD IN AIR, WATER, AND FOOD. CHAPTER FOUR COVERS ALL ASPECTS OF ARSENIC POISONING IN THE ENVIRONMENT AND FOOD, AND POISONING DUE TO INDUSTRIAL USES. THE OCCURRENCE, METABOLISM, AND TOXICITY OF AFLATOXINS ARE THE TOPICS OF THE FIFTH CHAPTER. CHAPTER SIX CONSIDERS ASBESTOS. (BB)

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NY 10003 ($14.50)

IRIS ACCESSION NUMBER: EW003561

PUBLICATION DATE: 77

TITLE: CHEMICAL COMPOSITION OF PHOTOGRAPHIC PROCESSING SOLUTIONS (J-47).

DESCRIPTOR: *CHEMICAL ANALYSIS; LABORATORY TECHNIQUES; *PHOTOGRAPHY; POLLUTION; PUBLIC HEALTH; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 4P.

ABSTRACT: THIS PUBLICATION IS ONE IN A SERIES WHICH DISCUSSES THE DISPOSAL OF PHOTOGRAPHIC PROCESSING SOLUTIONS. THE TABULATION HERE IS FOR THE CHEMICAL COMPOSITION OF THOSE SOLUTIONS USED IN PROCESSING AND THEIR CORRESPONDING PH VALUE. (CS)

AVAILABILITY: EASTMAN KODAK CO., DEPT. 454, 343 STATE ST., ROCHESTER, NY 14650 ($0.40)

INSTITUTION NAME: EASTMAN KODAK CO.

IRIS ACCESSION NUMBER: EW003563

PUBLICATION DATE: MAY 75

TITLE: MAGNESIUM CARBONATE - A RECYCLED COAGULANT FOR WATER TREATMENT, CAPSULE REPORT.

DESCRIPTOR: COST EFFECTIVENESS; *CHEMICAL REACTIONS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; RECYCLING; *RESEARCH; *TECHNOLOGY; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WATER TREATMENT; *MAGNESIUM CARBONATE

DESCRIPTIVE NOTE: 14P.

ABSTRACT: THIS CAPSULE REPORT DESCRIBES THE MAGNESIUM RECYCLE COAGULATION SYSTEM DEVELOPED UNDER GRANTS BY THE ENVIRONMENTAL PROTECTION AGENCY. THE SYSTEM OFFERS AN ALTERNATIVE APPROACH TO CHEMICAL SLUDGE HANDLING AS WELL AS PROVIDING FOR CHEMICAL REUSE. THE DISCUSSION INCLUDES A DESCRIPTION OF THE PROCESS, COMPARISON WITH OLDER PROCESSES, AREAS OF APPLICATION, AND ENERGY AND ECONOMIC CONSIDERATIONS. THE FACILITY, PROGRAM, AND RESULTS ARE PRESENTED BY GRAPHS, DIAGRAMS, AND PHOTOGRAPHS. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATIO CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003564

PUBLICATION DATE: 75

TITLE: LIME/LIMESTONE WET-SCRUBBING TEST RESULTS AT THE EP ALKALI SCRUBBING TEST FACILITY. SECOND PROGRESS REPORT.

DESCRIPTOR: *AIR POLLUTION CONTROL; CHEMICAL ANALYSIS *ENVIRONMENTAL INFLUENCES; *POLLUTION; PUBLIC HEALTH *RESEARCH; *TECHNOLOGY; WASTE DISPOSAL; *PARTICULATE WASTES *SULFUR DIOXIDE; *WET-SCRUBBING SYSTEMS

DESCRIPTIVE NOTE: 12P.

ABSTRACT: THIS CAPSULE REPORT DESCRIBES A PROGRAM CONDUCTE BY THE ENVIRONMENTAL PROTECTION AGENCY TO TEST PROTOTYP LIME AND LIMESTONE WET-SCRUBBING SYSTEMS FOR REMOVING SULFU DIOXIDE AND PARTICULATE MATTER FROM COAL-FIRED BOILER FLU GASES. DESCRIBED ARE A SERIES OF RELIABILITY TESTS CONDUCTE IN 1973 AND 1974. THE FACILITY, PROGRAM, AND RESULTS AR PRESENTED BY GRAPHS, DIAGRAMS, AND PHOTOGRAPHS. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATIO CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003565

PUBLICATION DATE: 76

TITLE: LIME/LIMESTONE WET-SCRUBBING TEST RESULTS AT THE EP ALKALI SCRUBBING TEST FACILITY. THIRD PROGRESS REPORT.

DESCRIPTOR: *AIR POLLUTION CONTROL; CHEMICAL ANALYSIS *ENVIRONMENTAL INFLUENCES; *POLLUTION; PUBLIC HEALTH RESEARCH; *TECHNOLOGY; WASTE DISPOSAL; *PARTICULATE WASTES *SULFUR DIOXIDE; *WET-SCRUBBING SYSTEMS

DESCRIPTIVE NOTE: 20P.

ABSTRACT: THIS IS THE THIRD IN A SERIES OF CAPSULE REPORT DESCRIBING A PROGRAM CONDUCTED BY THE ENVIRONMENTA PROTECTION AGENCY TO TEST PROTOTYPE LIME AND LIMESTONE WET SCRUBBING SYSTEMS FOR REMOVING SULFUR DIOXIDE AN PARTICULATE MATTER FROM COAL-FIRED BIOLER FLUE GASES. TH FACILITY, PROGRAM, AND RESULTS ARE PRESENTED BY GRAPHS DIAGRAMS, AND PHOTOGRAPHS. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATIO CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003566

PUBLICATION DATE: MAY 75

TITLE: FLUE GAS DESULFURIZATION AND SULFURIC ACI PRODUCTION VIA MAGNESIA SCRUBBING.

DESCRIPTOR: *AIR POLLUTION CONTROL; CHEMICAL REACTIONS COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *POLLUTION PUBLIC HEALTH; RECYCLING; *RESEARCH; *TECHNOLOGY *UTILITIES; *SULFUR DIOXIDE; *SCRUBBING SYSTEMS

DESCRIPTIVE NOTE: 30P. ORDER NO. PB 258 817

ABSTRACT: THIS CAPSULE REPORT DESCRIBES THE RESEARCH DON BY THE ENVIRONMENTAL PROTECTION AGENCY AND THE BOSTON EDISO COMPANY WITH A LARGE PROTOTYPE SULFUR DIOXIDE RECOVERY PLAN BASED ON MAGNESIA SLURRY SCRUBBING. THE DISCUSSION INCLUDE A DESCRIPTION OF THE PROCESS, THE PERFORMANCE, ECONOMICS AND AREAS OF APPLICATION. GRAPHS, DIAGRAMS, AND PHOTOGRAPH SUPPLIMENT THE TEXT. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, V 22161 ($4.50)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003567

PUBLICATION DATE: 77

TITLE: STATIC PILE COMPOSTING OF WASTEWATER SLUDGE. FIRS PROGRESS REPORT.

DESCRIPTOR: COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES *LAND USE; *POLLUTION; *RECYCLING; *REPORTS; TECHNOLOGY *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WASTEWATE TREATMENT; *SLUDGE; *COMPOSTING

DESCRIPTIVE NOTE: 12P.

ABSTRACT: THIS REPORT DESCRIBES STATIC PILE COMPOSTING AN ITS APPLICATION TO THE MUNICIPALITIES OF BANGOR, MAINE, AN DURHAM, NEW HAMPSHIRE. THE PROCESS AND APPLICATIONS AR DEPICTED IN SCHEMATICS AND COLOR PHOTOGRAPHS. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATIO CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003568

PUBLICATION DATE: JAN 76

TITLE: LAND TREATMENT OF MUNICIPAL WASTEWATER EFFLUENTS CASE HISTORIES.

DESCRIPTOR: *CASE STUDIES; *ENVIRONMENTAL INFLUENCES

[illegible] LAND APPLICATION; *LAND USE; [illegible] SECONDARY EDUCATION; PUBLIC [illegible] SEARCH; TECHNOLOGY; *WASTE DISPOSAL; *WATER [illegible] CONTROL; *WASTEWATER TREATMENT; *OPERATIONS [illegible]

[illegible]

[illegible] THIS PUBLICATION CONTAINS MATERIALS PRESENTED AT [illegible] SEMINARS SPONSORED BY THE [illegible] AGENCY. THE TEXT DISCUSSES THE CASE HISTORIES OF FIVE PROPERLY MANAGED SYSTEMS OF LAND [illegible] WASTEWATER. THE DESIGN CRITERIA AND [illegible] OF EACH FACILITY ARE DESCRIBED, AS WELL AS THE [illegible] AND THE MONITORING SCHEDULES USED TO [illegible] AND BIOLOGICAL PARAMETERS. ADDITIONAL [illegible] ARE PROVIDED. (CS)

[illegible] ENVIRONMENTAL REAEARCH INFORMATION [illegible] TRANSFER, CINCINNATI, OH 45268 (FREE)

[illegible] EPA, TECHNOLOGY TRANSFER.

[illegible]

[illegible] * WATER EFFLUENTS:

[illegible] DESIGN NEEDS; *ENVIRONMENTAL [illegible] MATERIALS; *LAND APPLICATION; [illegible] SECONDARY EDUCATION; *PUBLIC [illegible] TECHNOLOGY; *WASTE DISPOSAL; *WATER [illegible] WASTEWATER TREATMENT; *OPERATIONS [illegible]

[illegible]

[illegible] MATERIALS PRESENTED AT [illegible] SEMINARS SPONSORED BY THE [illegible] PROTECTION AGENCY. THE TEXT ADDRESSES LAND [illegible] WASTEWATER AND CONSIDERS PREAPPLICATION [illegible] SUITABILITY, SELECTION OF METHOD, [illegible] AND STORAGE, RUNOFF, AND PUBLIC [illegible] TO A MULTIDISCIPLINARY DESIGN [illegible]

[illegible] ENVIRONMENTAL REAEARCH INFORMATION [illegible] CINCINNATI, OH 45268 (FREE)

[illegible] EPA, TECHNOLOGY TRANSFER.

[illegible]

[illegible] WASTEWATER EFFLUENTS:

[illegible] ENVIRONMENTAL INFLUENCES; [illegible] MATERIALS; LAND APPLICATION; LAND USE; [illegible] SECONDARY EDUCATION; PUBLIC [illegible] TECHNOLOGY; *WASTE DISPOSAL; *WATER [illegible] OPERATIONS (WASTEWATER); *WASTEWATER

[illegible]

[illegible] MATERIALS PRESENTED AT [illegible] SEMINARS SPONSORED BY THE [illegible] AGENCY. THE TEXT BEGINS WITH A [illegible] PROCESSES AND SELECTION FACTORS [illegible] EFFLUENT LOADING CONSTRAINTS, [illegible] ALTERNATIVE OPERATIONS ARE THEN [illegible] GIVEN TO LOADING DESIGN AND [illegible] FIELD INVESTIGATIONS, MONITORING [illegible] IRRIGATION SCHEDULES, AND FARM [illegible]

[illegible] ENVIRONMENTAL REAEARCH INFORMATION [illegible] CINCINNATI, OH 45268 (FREE)

[illegible] TRANSFER.

[illegible]

[illegible] THE MANUFACTURING AND [illegible] POLLUTION CONTROL.

[illegible] INFLUENCES; INDUSTRY; *INPLANT [illegible] MATERIALS; LEGISLATION; [illegible] INDUSTRY; POLLUTION; POST SECONDARY [illegible] TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION [illegible] WASTEWATER TREATMENT; *COMPLIANCE

[illegible]

[illegible] MATERIALS PRESENTED AT [illegible] SEMINARS SPONSORED BY THE [illegible] PROTECTION AGENCY. THE FIVE-PART FORMAT [illegible] A SUMMARY OF CURRENT REGULATIONS AFFECTING [illegible] IN-PLANT TECHNIQUES FOR RESOLVING WATER [illegible] (3) RELATIONSHIPS WITH MUNICIPALITIES; [illegible] OF THREE METHODS FOR WASTEWATER TREATMENT; [illegible] THE TEXT PRESENTS PRACTICAL ASPECTS [illegible] IN MINIMIZING COSTS AND AVOIDING [illegible] MANUFACTURING PROCESS. (CS)

[illegible] ENVIRONMENTAL REAEARCH INFORMATION [illegible] CINCINNATI, OH 45268 (FREE)

[illegible] TRANSFER.

IRIS ACCESSION NUMBER: EJ003573

PUBLICATION DATE: 77

TITLE: LEGAL AND INSTITUTIONAL RESPONSES TO GROWING WATER DEMAND.

PERSONAL AUTHOR: TECLAFF, LUDWIK

DESCRIPTOR: *ADMINISTRATION; ENVIRONMENT; *GLOBAL APPROACH; *INTERNATIONAL LAW; *MANAGEMENT; NATURAL RESOURCES; WATER POLLUTION CONTROL; *WATER RESOURCES; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 95P.

ABSTRACT: THIS DOCUMENT PRESENTS A SYNTHESIS OF RECENT LEGAL AND INSTITUTIONAL TRENDS RELATIVE TO INTERNATIONAL WATER LAW. THE TEXT DISCUSSES THE PRIORITY AND DURATION OF RIGHTS AND SUGGESTED CHANGES IN ADMINISTRATIVE STRUCTURE TO PROMOTE EFFECTIVENESS AND FLEXIBILITY. ADMINISTRATIVE POWER IS DISCUSSED AS IT RELATES TO THE WELFARE OF THE INDIVIDUAL AND THE PUBLIC. THE TEXT HAS EXTENSIVE FOOTNOTES. (CS)

AVAILABILITY: UNIPUB, INC., P.O. BOX 433, NEW YORK, NY 10016 ($4.00)

IRIS ACCESSION NUMBER: EW003575

PUBLICATION DATE: JUL 77

TITLE: POLLUTION ABATEMENT IN THE FRUIT AND VEGETABLE INDUSTRY: BASICS OF POLLUTION CONTROL - CASE HISTORIES.

DESCRIPTOR: AGRICULTURE; *CASE STUDIES; *ENVIRONMENTAL INFLUENCES; *FOOD PROCESSING OCCUPATIONS; *INDUSTRY; *INSTRUCTIONAL MATERIALS; LEGISLATION; POLLUTION; POST SECONDARY EDUCATION; TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 100P.

ABSTRACT: THIS PUBLICATION CONTAINS MATERIALS PRESENTED AT INDUSTRIAL POLLUTION CONTROL SEMINARS FOR THE FRUIT AND VEGETABLE PROCESSING INDUSTRY. THE FIRST THREE CHAPTERS PROVIDE A GENERAL INTRODUCTION TO WATER POLLUTION PARAMETERS AND THE INFLUENCES OF THE FEDERAL WATER POLLUTION CONTROL ACT. TEN CASE HISTORIES OF IN-PLANT CONTROL TECHNOLOGY AND WASTEWATER MANAGEMENT SITES ARE PRESENTED. THE DOCUMENT CONCLUDES WITH A GLOSSARY OF RELATED ENVIRONMENTAL TERMS. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003576

PUBLICATION DATE: JUL 77

TITLE: POLLUTION ABATEMENT IN THE FRUIT AND VEGETABLE INDUSTRY. IN-PLANT CONTROL OF PROCESS WASTEWATER.

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *FOOD PROCESSING OCCUPATIONS; *GUIDELINES; *INDUSTRY; POLLUTION; PUBLIC HEALTH; TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 119P.

ABSTRACT: THIS PUBLICATION CONTAINS MATERIALS PRESENTED AT INDUSTRIAL POLLUTION CONTROL SEMINARS FOR THE FRUIT AND VEGETABLE PROCESSING INDUSTRY. THE CHAPTERS IN THIS VOLUME DEAL WITH MEASURES WHICH CAN BE USED TO REDUCE WATER CONSUMPTION AND MINIMIZE POLLUTANT GENERATION THROUGH PROPER MANAGEMENT OF PROCESSING OPERATIONS. TOPICS INCLUDE FACTORS INFLUENCING WASTE GENERATION, IN-PLANT MODIFICATIONS, DISINFECTION, WASTE PREVENTION, AND SPECIFIC OPERATIONS. APPENDIX A OUTLINES APPROVED TEST PROCEDURES UNDER CHAPTER 1, SUBCHAPTER D OF THE ENVIRONMENTAL PROTECTION AGENCY RULES AND REGULATIONS. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003577

PUBLICATION DATE: JUL 77

TITLE: POLLUTION ABATEMENT IN THE FRUIT AND VEGETABLE INDUSTRY: WASTEWATER TREATMENT.

DESCRIPTOR: AGRICULTURE; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *FOOD PROCESSING OCCUPATIONS; *INDUSTRY; *INSTRUCTIONAL MATERIALS; LAND APPLICATION; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER QUALITY; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 83P.

ABSTRACT: THIS PUBLICATION CONTAINS MATERIALS PRESENTED AT INDUSTRIAL POLLUTION CONTROL SEMINARS FOR THE FRUIT AND VEGETABLE PROCESSING INDUSTRY. THE TEXT DISCUSSES PRETREATMENT; PRIMARY, SECONDARY, AND ADVANCED TREATMENT; LAND TREATMENT AND DISPOSAL; AND SOLIDS DISPOSAL. COST SUMMARIES ARE ALSO GIVEN FOR THE MORE SIGNIFICANT TREATMENT PROCESSES DISCUSSED. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

[illegible] NUMBER: EW003578

PUBLICATION DATE: MAY 77

TITLE: [illegible] OPTIMUM MANAGEMENT STRATEGIES.

DESCRIPTOR: [illegible] POLLUTION CONTROL; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LEGISLATION; *MANAGEMENT; POLLUTION; POST SECONDARY EDUCATION; *WATER QUALITY; *WATER POLLUTION CONTROL; *REGULATIONS

DESCRIPTIVE NOTE: 55P.

ABSTRACT: THIS PUBLICATION CONTAINS MATERIALS PRESENTED AT TECHNOLOGY TRANSFER DESIGN SEMINARS SPONSORED BY THE ENVIRONMENTAL PROTECTION AGENCY. THE TEXT DISCUSSES LAWS AND REGULATIONS AFFECTING INDUSTRIAL OPERATIONS; RELATIONS WITH CONSULTANTS, ATTORNEYS, AND REGULATORY AGENCIES; AND THE POLLUTION CONTROL PROGRAM, INCLUDING INITIATION, MEETING DEADLINES AND HANDLING DELAYS. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003579

PUBLICATION DATE: 11-15-76

TITLE: [illegible] OF SEWAGE SLUDGE TO CROPLAND: APPRAISAL OF POTENTIAL HAZARDS OF THE HEAVY METALS TO PLANTS AND ANIMALS [illegible]

DESCRIPTOR: AGRICULTURAL PRODUCTION; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LAND USE; *METALS; PLANT GROWTH; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *SEWAGE TECHNOLOGY; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *HEAVY METALS

DESCRIPTIVE NOTE: 7P. REPORT NO. 64; ORDER NO. PB 264 015

ABSTRACT: THIS REPORT EXAMINES THE PRESENT STATE OF KNOWLEDGE PERTAINING THE POTENTIAL EFFECTS ON AGRICULTURAL CROPS AND ANIMALS BY HEAVY METALS IN SEWAGE SLUDGES APPLIED TO CROPLAND. ALSO DISCUSSED ARE PROBLEMS ASSOCIATED WITH MONITORING METAL CONCENTRATIONS IN SLUDGE, SOIL AND PLANT TISSUES, AND WITH DETERMINING TOXICITY UNDER WIDELY VARYING ENVIRONMENTAL CONDITIONS. SPECIFIC HEAVY METALS DISCUSSED INCLUDE ARSENIC, LEAD, MERCURY, CADMIUM, COPPER, NICKEL, AND ZINC. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 (FREE)

INSTITUTION NAME: COUNCIL FOR AGRICULTURAL SCIENCE AND TECHNOLOGY

IRIS ACCESSION NUMBER: EW003580

PUBLICATION DATE: MAR 76

TITLE: DISINFECTION OF WASTEWATER: TASK FORCE REPORT (MCD-13).

DESCRIPTOR: BIOCHEMISTRY; *CHLORINE; *DISINFECTION; ENVIRONMENTAL INFLUENCES; POLLUTION; *PUBLIC HEALTH; PUBLIC SANITATION; *TECHNICAL REPORTS; TECHNOLOGY; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 59P.

ABSTRACT: THIS DOCUMENT PROVIDES THE FINDINGS AND RECOMMENDATIONS OF AN INTRA-AGENCY TASK FORCE ASSIGNED TO STUDY WASTEWATER DISINFECTION REQUIREMENTS AND THE USE OF CHLORINE. INCLUDED IN THIS REPORT ARE: (1) CONCLUSIONS AND RECOMMENDATIONS, (2) PUBLIC HEALTH EFFECTS; (3) EFFECTS ON AQUATIC LIFE; AND (4) DISINFECTION PROCESS ALTERNATIVES. THE APPENDIX INCLUDES A LISTING OF RESEARCH AND DEVELOPMENT NEEDS AND EXISTING STATE STANDARDS. (CS)

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8-FFS), CENTRALIZED MAILING LIST SERVICES, BLDG. 41, DENVER FEDERAL CENTER, DENVER, COLORADO 80225 (FREE)

INSTITUTION NAME: U.S. EPA, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003581

PUBLICATION DATE: OCT 75

TITLE: ALTERNATIVE WASTE TREATMENT TECHNIQUES FOR BEST PRACTICABLE WASTE TREATMENT (MCD-13).

DESCRIPTOR: COST EFFECTIVENESS; LAND APPLICATION; LAND USE; *REGULATIONS; *MANAGEMENT SYSTEMS; POLLUTION; *RECYCLING; SEWAGE TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 76P. ORDER NO. PB 257 446

ABSTRACT: THIS DOCUMENT PROVIDES INFORMATION PURSUANT TO SECTION 304 (B) (2) OF THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 ON PRACTICABLE TECHNIQUES BY WHICH PUBLICLY OWNED TREATMENT WORKS CAN RESTORE AND MAINTAIN THE INTEGRITY OF THE NATION'S WATERS. THE DOCUMENT IDENTIFIES CURRENTLY KNOWN TECHNIQUES SUCH AS LAND APPLICATION, ADVANCED TREATMENT, SLUDGE HANDLING, AND REUSE. AN EXTENSIVE BIBLIOGRAPHY PROVIDES REFERENCES FOR TOPICS SUCH AS: (1) LAND UTILIZATION; (2) FLOW REDUCTION; (3) PONDS; (4) FILTERS; (5) PHYSICAL-CHEMICAL TREATMENT; AND (6) REUSE TECHNIQUES. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 (FREE)

INSTITUTION NAME: U.S. EPA,, OFFICE OF WATER PROGRAM OPERATIONS

IRIS ACCESSION NUMBER: EW003582

ERIC ACCESSION NUMBER: ED162860

PUBLICATION DATE: APR 78

TITLE: ANNOTATED BIBLIOGRAPHY FOR WATER QUALITY MANAGEMENT FIFTH EDITION.

INSTITUTION CODE: BB813327

DESCRIPTOR: AGRICULTURE; *ANNOTATED BIBLIOGRAPHIES AUDIOVISUAL AIDS; COST EFFECTIVENESS; *ENVIRONMENTA INFLUENCES; LAND USE; LEGISLATION; MUNICIPALITIES POLLUTION; *PUBLICATIONS; REFERENCE MATERIALS; *WATE POLLUTION CONTROL; *WATER RESOURCES; *WASTEWATER TREATMENT *MANAGEMENT; *WATER QUALITY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 64P.; MARGINALLY LEGIBLE

ISSUE: RIEAPR79

ABSTRACT: THE REFERENCES INCLUDED IN THIS BIBLIOGRAPHY HAV BEEN SELECTED BY THE ENVIRONMENTAL PROTECTION AGENCY FO THEIR APPLICABILITY TO 208 PLANNING AND FOR THEI AVAILABILITY. EACH REFERENCE IS FOLLOWED BY A SHORT ABSTRAC AND WHEN POSSIBLE BY DETAILED PRICE AND ORDERIN INFORMATION. TOPIC AREAS INCLUDE: AGRICULTURE, CONSTRUCTION ECONOMICS, IMPACT STATEMENTS, GROUNDWATER, NON-POIN SOURCES, PUBLIC PARTICIPATION, PLANNING, URBAN RUNOFF, AN WASTEWATER TREATMENT. (CS)

REPORT NUMBER: EPA-WH-554

AVAILABILITY: WATER PLANNING DIV. LIBRARY, UNITED STATE ENVIRONMENTAL PROTECTION AGENCY, 401 M. ST., S.W. WASHINGTON, D.C. 20460 (FREE)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003584

PUBLICATION DATE: 78

TITLE: CLEANING OUR ENVIRONMENT: A CHEMICAL PERSPECTIVE, 2ND EDITION.

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMICAL ANALYSIS ENVIRONMENT; *INSTRUCTIONAL MATERIALS; PESTICIDES; *POS SECONDARY EDUCATION; RADIOACTIVITY; TOXICOLOGY; *WASTI DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 475P.

ABSTRACT: THIS REPORT BY THE AMERICAN CHEMICAL SOCIET COMMITTEE ON ENVIRONMENTAL IMPROVEMENT ASSESSES FROM A CHEMICAL POINT OF VIEW WHAT IS KNOWN ABOUT THE ENVIRONMEN AND HOW TO CONSERVE IT AND RECOMMENDS ACTIONS DESIGNED T EXPAND THAT KNOWLEDGE AND ITS USE. SEVENTY-ON RECOMMENDATIONS ARE GIVEN ALONG WITH ACCOMPANYING DISCUSSION OR REMARKS. CHAPTERS ARE PRESENTED ON THE FOLLOWING TOPICS: CHEMICAL ALALYSIS AND MONITORING, TOXICOLOGY, THE AIR ENVIRONMENT, THE WATER ENVIRONMENT, SOLID WASTES, PESTICIDES IN THE ENVIRONMENT, AND RADIATION IN THE ENVIRONMENT. (BB)

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW, WASHINGTON, D.C. 20036 ($9.50)

INSTITUTION NAME: AMERICAN CHEMICAL SOCIETY, COMMITTEE ON ENVIRONMENTAL IMPROVEMENT.

IRIS ACCESSION NUMBER: EW003585

PUBLICATION DATE: 76

TITLE: PROCEEDINGS OF THE THIRD INTERNATIONAL BIODEGRADATION SYMPOSIUM, SESSIONS XI, XII, XVI.

PERSONAL AUTHOR: SHARPLEY, J. MILES; KAPLAN, ARTHUR

DESCRIPTOR: AGRICULTURAL PRODUCTION; *BIOCHEMISTRY CONFERENCES; *ENVIRONMENTAL INFLUENCES; *MICROBIOLOGY ORGANIC CHEMISTRY; POLLUTION; RECYCLING; *RESEARCH; *WASTE DISPOSAL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 79P.

ABSTRACT: THE CONTENTS OF THIS BOOK ARE PART OF THE PROCEEDINGS OF THE THIRD INTERNATIONAL BIODEGRADATION SYMPOSIUM. THE PAPERS PRESENTED ADDRESS BIODEGRADATION IN GENERAL AND BIODEGRADATION OF ORGANIC WASTES INCLUDING AGRICULTURAL WASTE PRODUCTS AND LEAVES, AND THE USE OF VARIOUS FUNGI. EACH PRESENTATION CONTAINS A SUMMARY, MAJOR CONCLUSIONS OF THE STUDY, AND REFERENCES. (CS)

AVAILABILITY: APPLIED SCIENCE PUBLISHERS LTD., 22 RIPPLESIDE COMMERCIAL ESTATE, RIPPLE RD., BARKING, ESSEX, ENGLAND ($10.00)

IRIS ACCESSION NUMBER: EW003586

PUBLICATION DATE: 79

TITLE: TOXIC AND HAZARDOUS WASTE DISPOSAL, VOL. 1: PROCESS FOR STABILIZATION/SOLIDIFICATION.

PERSONAL AUTHOR: POJASEK, ROBERT B.

DESCRIPTOR: *CHEMICAL TREATMENT; ENCAPSULATION; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; RADIOACTIVITY; *SOLIDIFICATION; *STABILIZATION; *TOXIC SUBSTANCES; *WASTE DISPOSAL; WASTEWATER DISPOSAL

DESCRIPTIVE NOTE: 407P.

ABSTRACT: EIGHTEEN PAPERS ARE PRESENTED ON DISPOSAL OF TOXIC AND HAZARDOUS WASTES USING STABILIZATION/SOLIDIFICATION TECHNIQUES. THE FOLLOWING TOPICS ARE DISCUSSED: (1) SOLIDIFICATION AS AN ULTIMATE

ISPOSAL OPTION FOR HAZARDOUS WASTES; (2) A SURVEY OF VAILABLE STABILIZATION TECHNOLOGY; (3) AN OVERVIEW OF THE VAILABLE METHODS OF SOLIDIFICATION FOR RADIOACTIVE WASTES; 4) USE OF AN EXTRUDER/EVAPORATOR TO STABILIZE AND SOLIDIFY AZARDOUS WASTES; (5) EFFECTIVE DISPOSAL OF FINE COAL REFUSE ND FLUE GAS DESULFURIZATION SLURRIES USING CALCILOX; (6) ICRUENCAPSULATION; (7) FGD SOLIDS PROCESSING AND TABILIZATION OPTIONS; (8) THE TERRA-TITE PROCESS; (9) THE ETRIFIX PROCESS; (10) THE SFT TERRA-CRETE PROCESS; (11) OLYMERIC SOLIDIFICATION OF LOW-LEVEL RADIOACTIVE WASTES ROM NUCLEAR POWER PLANTS; (12) ENCAPSULATION; (13) NUCLIDE TABILIZATION IN CERAMICS; (14) IMMOBILIZATION BY POLYESTER NCAPSULATION; (15) SEALOSAFE; (16) DISPOSAL OF LIQUID ASTES BY CHEMICAL FIXATION/SOLIDIFICATION; (17) OLIDIFICATION OF WASTES; AND (18) OPTIONS FOR DISPOSAL OF ODIUM SULFUR OXIDE WASTES. (BB)

VAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 624, ANN ARBOR, MICHIGAN 48106 ($36.00)

RIS ACCESSION NUMBER: EW003587

RIC ACCESSION NUMBER: ED152500

UBLICATION DATE: AUG 77

ITLE: USER'S GUIDE TO BIOME INFORMATION FROM THE UNITED TATES INTERNATIONAL BIOLOGICAL PROGRAM (IBP). FIRST DITION.

ERSONAL AUTHOR: HINCKLEY, A. DEXTER; HAUG, PETER T.

NSTITUTION CODE: BBB15418

PONSORING AGENCY CODE: BBB13553

ESCRIPTOR: *ECOLOGICAL FACTORS; ECOLOGY; ENVIRONMENTAL DUCATION; *GUIDES; *INFORMATION SOURCES; *RESEARCHERS; ESOURCE GUIDES; SCIENCE EDUCATION; *SCIENTIFIC RESEARCH; CIENTISTS; ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION; INTERNATIONAL BIOLOGICAL PROGRAM

DRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

ESCRIPTIVE NOTE: 52P.

SSUE: RIEAUG78

BSTRACT: THIS PUBLICATION IS A GUIDE TO THE BIOME RESEARCH ONDUCTED UNDER THE INTERNATIONAL BIOLOGICAL PROGRAM. THE UIDE LISTS BIOME RESEARCHERS BY INTEREST AND BY BIOME AS ELL AS A CENTRAL LIST. A SITE LIST, MAP, INFORMATION OURCES SECTION REPORTING ABSTRACTS, BIBLIOGRAPHIES, OURNALS, BOOKS, EVALUATIONS, AND DATA BOOKS ARE ALSO NCLUDED. THREE APPENDICES GIVE ADDITIONAL INFORMATION PECIALLY ON BIOME DATA SETS. THE BIOME RESEARCHERS IRECTORY PORTION OF THIS GUIDE LISTS MANY BIOME ESEARCHERS, GIVING THEIR 1977 ADDRESSES AND TELEPHONE UMBERS, AND INDICATING THE BIOME THEY STUDIED AND THEIR PECIAL INTEREST. THE INFORMATION SOURCES SECTION ON UBLISHED AND UNPUBLISHED BIBLIOGRAPHY SOURCES INCLUDES ESCRIPTIONS OF AVAILABLE MATERIALS AND CONTACTS TO ACILITATE THEIR ACQUISITION. THIS GUIDE MAY ALSO BE USEFUL O NATURAL AND SOCIAL SCIENTISTS WORKING ON PROBLEMS OF NVIRONMENTAL ASSESSMENT AND TO THOSE PERSONS INVOLVED IN ATURAL RESOURCE MANAGEMENT. (MR)

VAILABILITY: TIE-HRI, BUTLER UNIVERSITY, INDIANAPOLIS, NDIANA 46208 ($1.00)

NSTITUTION NAME: INSTITUTE OF ECOLOGY, INDIANAPOLIS, IND.

PONSORING AGENCY NAME: ENERGY RESEARCH AND DEVELOPMENT DMINISTRATION, WASHINGTON, D.C.

RIS ACCESSION NUMBER: EW003588

RIC ACCESSION NUMBER: ED148597

UBLICATION DATE: 75

ITLE: ENVIRONMENTAL PROTECTION DIRECTORY: A COMPREHENSIVE UIDE TO ENVIRONMENTAL ORGANIZATIONS IN THE UNITED STATES ND CANADA. SECOND EDITION.

ERSONAL AUTHOR: TRZYNA, THADDEUS C., ED.; OSBERG, SALLY ., ED.

NSTITUTION CODE: BBB11667

ESCRIPTOR: ABSTRACTS; *DIRECTORIES; *ENVIRONMENT; NVIRONMENTAL EDUCATION; FEDERAL GOVERNMENT; *GUIDES; NDEXES (LOCATERS); *ORGANIZATIONS (GROUPS); *REFERENCE ATERIALS; RESOURCE MATERIALS

DRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

ESCRIPTIVE NOTE: 526P.

SSUE: RIEMAY78

BSTRACT: THIS DIRECTORY IS DESIGNED TO PROVIDE A OMPREHENSIVE, UP-TO-DATE SOURCE OF INFORMATION ON OVERNMENTAL AND PRIVATE ORGANIZATIONS CONCERNED WITH NVIRONMENTAL QUALITY IN THE UNITED STATES AND CANADA. THE OOK IS DIVIDED INTO FIVE MAJOR PARTS: THE USER'S GUIDE, ECTIONS FOR U.S., CANADIAN, AND INTERNATIONAL RGANIZATIONS, AND THE INDEXES. THE PRINCIPAL ENTRY FOR AN RGANIZATION IS GIVEN A UNIQUE ENTRY NUMBER. ALLOWING FOR INOR MODIFICATIONS DUE TO THE INDIVIDUAL CHARACTER OF EACH RGANIZATION, ENTRIES CONTAIN THE FOLLOWING INFORMATION: (1) AME OF ORGANIZATION; (2) ADDRESS, TELEPHONE NUMBER, AND ELEX OR TWX NUMBER; (3) TITLES AND NAMES OF KEY PERSONNEL; 4) DESCRIPTION OF FUNCTIONS AND ACTIVITIES; (5) UBLICATIONS; AND (6) REGIONAL OFFICES, CHAPTERS, AND UBSIDIARY GROUPS. FOUR INDEXES PROVIDE ACCESS BY SUBJECT, RGANIZATION, PERSONNEL, AND PUBLICATION TITLE. REFERENCES RE TO ENTRY NUMBERS. EMPHASIS IS GIVEN TO ORGANIZATIONS HAT INFLUENCE, FORMULATE, OR ADMINISTER PUBLIC POLICY, OR HAT CONDUCT RESEARCH OR INFORMATION PROGRAMS ORIENTED OWARD SOLVING PUBLIC PROBLEMS. GENERALLY EXCLUDED ARE ROUPS WHOSE PROGRAMS ARE LIMITED TO FORMAL EDUCATION OR CIENTIFIC RESEARCH. ALSO EXCLUDED ARE GROUPS ORGANIZED FOR ROFIT OR INTERESTED IN ENVIRONMENTAL ISSUES ONLY FROM A NARROW ECONOMIC PERSPECTIVE. (AUTHOR/MA)

AVAILABILITY: MARQUIS ACADEMIC MEDIA, MARQUIS WHO'S WHO, INC., 200 EAST OHIO ST., CHICAGO, ILLINOIS 60611 ($44.50)

INSTITUTION NAME: CENTER FOR CALIFORNIA PUBLIC AFFAIRS, CLAREMONT.

IRIS ACCESSION NUMBER: EW003589

ERIC ACCESSION NUMBER: ED147114

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR ALABAMA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *ALABAMA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 149P.; FOR RELATED DOCUMENTS, SEE SE 023 293-360; CONTAINS OCCASIONAL COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF ALABAMA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003590

ERIC ACCESSION NUMBER: ED147115

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR ALASKA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *ALASKA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 121P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF ALASKA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION X REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003591

ERIC ACCESSION NUMBER: ED147116

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR ARIZONA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *ARIZONA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 136P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF ARIZONA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IX REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003592

ERIC ACCESSION NUMBER: ED147117

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR ARKANSAS.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *ARKANSAS; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 109P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES AND SMALL PRINT

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF ARKANSAS. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VI REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003593

ERIC ACCESSION NUMBER: ED147118

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR CALIFORNIA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *CALIFORNIA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 183P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES AND SMALL PRINT

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF CALIFORNIA. THE STUDY CONCERN ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS O AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLI WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORC PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPOR OUTLINE STATE LEGISLATION AND SELECTED POST SECONDAR INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION I REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHIC PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AN REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003594

ERIC ACCESSION NUMBER: ED147119

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMEN FOR COLORADO.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION *STATE LEGISLATION; WATER POLLUTION CONTROL; *COLORADO NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 117P.; FOR RELATED DOCUMENTS, SEE SE 02 292-360; CONTAINS OCCASIONAL COLORED PAGES AND SMALL PRINT

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOP STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABL INFORMATION FOR THE STATE OF COLORADO. THE STUDY CONCERN ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS O AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLI WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDED WORKFORC PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH O THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPOR OUTLINE STATE LEGISLATION AND SELECTED POST SECONDAR INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHIC PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AN REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003595

ERIC ACCESSION NUMBER: ED147120

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMEN FOR CONNECTICUT.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION *STATE LEGISLATION; WATER POLLUTION CONTROL; *CONNECTICUT; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 117P.; FOR RELATED DOCUMENTS, SEE SE 02 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOP STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABL INFORMATION FOR THE STATE OF CONNECTICUT. THE STUDY CONCERN ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS O AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLI WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORC PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH O THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPOR OUTLINE STATE LEGISLATION AND SELECTED POST SECONDAR INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHIC PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AN REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003596

ERIC ACCESSION NUMBER: ED147121

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR DELAWARE.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *DELAWARE; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 96P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF DELAWARE. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION III REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003597

ERIC ACCESSION NUMBER: ED147122

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR DISTRICT OF COLUMBIA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *DISTRICT OF COLUMBIA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 93P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE DISTRICT OF COLUMBIA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION III REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003598

ERIC ACCESSION NUMBER: ED147123

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR FLORIDA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *FLORIDA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 157P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF FLORIDA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003599

ERIC ACCESSION NUMBER: ED147124

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR GEORGIA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *GEORGIA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 184P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF GEORGIA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003600

ERIC ACCESSION NUMBER: ED147125

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR HAWAII.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *HAWAII; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 96P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF HAWAII. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT

OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IX REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003601

ERIC ACCESSION NUMBER: ED147126

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR IDAHO.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *IDAHO; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 169P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF IDAHO. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION X REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003602

ERIC ACCESSION NUMBER: ED147127

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR ILLINOIS.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *ILLINOIS; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 184P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES ; SEVERAL FIGURES MAY BE MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF ILLINOIS. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION V REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003603

ERIC ACCESSION NUMBER: ED147128

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR INDIANA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *INDIANA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 208P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES; APPENDICES MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF INDIANA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION V REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003604

ERIC ACCESSION NUMBER: ED147129

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR IOWA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *IOWA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 108P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF IOWA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003605

ERIC ACCESSION NUMBER: ED147130

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR KANSAS.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *KANSAS; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 192P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF KANSAS. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003606

ERIC ACCESSION NUMBER: ED147131

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR KENTUCKY.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *KENTUCKY; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 131P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES AND SMALL PRINT

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF KENTUCKY. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003607

ERIC ACCESSION NUMBER: ED147132

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR LOUISIANA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *LOUISIANA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 164P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES; PAGE 42 MISSING FROM DOCUMENT PRIOR TO BEING SHIPPED TO EDRS FOR FILMING; BEST COPY AVAILABLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF LOUISIANA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VI REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003608

ERIC ACCESSION NUMBER: ED147133

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR MAINE.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *MAINE; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 120P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF MAINE. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION I REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003609

ERIC ACCESSION NUMBER: ED147134

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR MARYLAND.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *MARYLAND; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 124P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF MARYLAND. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION III REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003610

ERIC ACCESSION NUMBER: ED147135

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR MASSACHUSETTS.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *MASSACHUSETTS; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 135P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF MASSACHUSETTS. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION I REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003611

ERIC ACCESSION NUMBER: ED147136

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR MICHIGAN.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *MICHIGAN; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 148P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES ; SEVERAL FIGURES MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF MICHIGAN. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION V REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003612

ERIC ACCESSION NUMBER: ED147137

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR MINNESOTA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *MINNESOTA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 147P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF MINNESOTA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDAR INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION V REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AN REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003613

ERIC ACCESSION NUMBER: ED147138

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR MISSISSIPPI.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *MISSISSIPPI; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 130P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES ; SEVERAL FIGURES MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF MISSISSIPPI. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003614

ERIC ACCESSION NUMBER: ED147139

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR MISSOURI.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *MISSOURI; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 120P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF MISSOURI. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE.

HE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VII PORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH ESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND GIONAL SUMMARIES. (CS)

RANT NUMBER: EPA-T-900591010

NSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA ITY, IOWA.

PONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, ASHINGTON, D. C.

RIS ACCESSION NUMBER: EW003615

RIC ACCESSION NUMBER: ED147140

UBLICATION DATE: 77

ITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT OR MONTANA.

NSTITUTION CODE: BBB15099

PONSORING AGENCY CODE: BBB06039

ESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; ESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; STATE LEGISLATION; WATER POLLUTION CONTROL; *MONTANA; OISE; SOLID WASTES

DRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

ESCRIPTIVE NOTE: 148P.; FOR RELATED DOCUMENTS, SEE SE 023 92-360; CONTAINS OCCASIONAL COLORED PAGES ; SEVERAL FIGURES ARGINALLY LEGIBLE

SSUE: RIEAPR78

BSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, RAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS TAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE NFORMATION FOR THE STATE OF MONTANA. THE STUDY CONCERNS TSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF IR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID ASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE ROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF HE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT UTLINE STATE LEGISLATION AND SELECTED POST SECONDARY NSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A TATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. HE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VIII EPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH RESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, .C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND EGIONAL SUMMARIES. (CS)

RANT NUMBER: EPA-T-900591010

NSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA ITY, IOWA.

PONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, ASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003616

ERIC ACCESSION NUMBER: ED147141

PUBLICATION DATE: 77

ITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT OR NEBRASKA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *NEBRASKA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 108P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NEBRASKA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003617

ERIC ACCESSION NUMBER: ED147142

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR NEVADA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *NEVADA; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 100P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NEVADA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IX REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003618

ERIC ACCESSION NUMBER: ED147143

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR NEW HAMPSHIRE.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *NEW HAMPSHIRE; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 106P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NEW HAMPSHIRE. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION I REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003619

ERIC ACCESSION NUMBER: ED147144

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR NEW JERSEY.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *NEW JERSEY; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 124P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES ; SEVERAL CHARTS MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NEW JERSEY. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION II REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003620

ERIC ACCESSION NUMBER: ED147145

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR NEW MEXICO.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *NEW MEXICO; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 130P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NEW MEXICO. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003621

ERIC ACCESSION NUMBER: ED147146

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR NEW YORK.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; *NEW YORK; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 127P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES ; SEVERAL FIGURES MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NEW YORK. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION II REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHIC PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AN REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003622

ERIC ACCESSION NUMBER: ED147147

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMEN FOR NORTH CAROLINA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; *NORT CAROLINA; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 210P.; FOR RELATED DOCUMENTS, SEE SE 02 292-360; CONTAINS OCCASIONAL COLORED PAGES; PAGE 41 MISSIN FROM DOCUMENT PRIOR TO BEING SHIPPED TO EDRS FOR FILMING BEST COPY AVAILABLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOP STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NORTH CAROLINA. THE STUD CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTRO AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDE WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTION FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POS SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERG PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 6 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AN NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003623

ERIC ACCESSION NUMBER: ED147148

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR NORTH DAKOTA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; *NORTH DAKOTA; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 101P.; FOR RELATED DOCUMENTS, SE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES; PAGE 39 MISSING FROM DOCUMENT PRIOR TO BEING SHIPPED TO EDRS FOR FILMING; BEST COPY AVAILABLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF NORTH DAKOTA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VIII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003624

ERIC ACCESSION NUMBER: ED147149

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR OHIO.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; *OHIO; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 167P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF OHIO. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION V REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003625

ERIC ACCESSION NUMBER: ED147150

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR OKLAHOMA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; *OKLAHOMA; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 135P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF OKLAHOMA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VI REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003626

ERIC ACCESSION NUMBER: ED147151

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR OREGON.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; *OREGON; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 167P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES [illegible] IN APPENDIX

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF OREGON. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VIII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003627

ERIC ACCESSION NUMBER: ED147152

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR PENNSYLVANIA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; [illegible] PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION [illegible] NOISE; *PENNSYLVANIA; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.[illegible] PLUS POSTAGE.

DESCRIPTIVE NOTE: 112P.; FOR RELATED DOCUMENTS, SEE [illegible] 292-360; CONTAINS OCCASIONAL COLORED [illegible] MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF PENNSYLVANIA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION III REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003628

ERIC ACCESSION NUMBER: ED147153

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR PUERTO RICO.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; *PUERTO RICO; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.[illegible] PLUS POSTAGE.

DESCRIPTIVE NOTE: 93P.; FOR RELATED DOCUMENTS, SEE [illegible] 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE COMMONWEALTH OF PUERTO RICO. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN [illegible]

REGION II REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003629

ERIC ACCESSION NUMBER: ED147154

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR RHODE ISLAND.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; *RHODE ISLAND; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 92P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF RHODE ISLAND. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION I REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003630

ERIC ACCESSION NUMBER: ED147155

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR SOUTH CAROLINA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES; *SOUTH CAROLINA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 146P.; FOR RELATED DOCUMENTS, SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF SOUTH CAROLINA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003631

ERIC ACCESSION NUMBER: ED147156

PUBLICATION DATE: 77

TITLE: NATIONAL [illegible] FOR SOUTH DAKOTA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *[illegible] *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER [illegible] PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION [illegible] *STATE LEGISLATION; WATER POLLUTION CONTROL [illegible] WASTES; *SOUTH DAKOTA

EDRS PRICE: EDRS PRICE MF-$0.83 [illegible]

DESCRIPTIVE NOTE: 108P.; FOR RELATED DOCUMENTS [illegible] 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING [illegible] TRAINING PROGRAMS AND CAREER POTENTIALS [illegible] STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON [illegible] INFORMATION FOR THE STATE OF SOUTH DAKOTA [illegible] CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION [illegible] AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, [illegible] SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT [illegible] WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER [illegible] FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL [illegible] THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS [illegible] REGION VIII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003632

ERIC ACCESSION NUMBER: ED147157

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR TENNESSEE.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION [illegible] *STATE LEGISLATION; WATER POLLUTION CONTROL [illegible] WASTES; *TENNESSEE

EDRS PRICE: EDRS PRICE MF-$0.83 [illegible]

DESCRIPTIVE NOTE: 151P.; FOR RELATED DOCUMENTS [illegible] 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING [illegible] TRAINING PROGRAMS AND CAREER POTENTIALS [illegible] STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON [illegible] INFORMATION FOR THE STATE OF TENNESSEE. THE STUDY [illegible] ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION IV REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003633

ERIC ACCESSION NUMBER: ED147158

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR TEXAS.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION [illegible] *STATE LEGISLATION; WATER POLLUTION CONTROL [illegible] WASTES; *TEXAS

EDRS PRICE: EDRS PRICE MF-$0.83 [illegible]

DESCRIPTIVE NOTE: 127P.; FOR RELATED DOCUMENTS [illegible] 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

BSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, RAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS TAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE NFORMATION FOR THE STATE OF TEXAS. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF IR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID ASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE ROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF HE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT UTLINE STATE LEGISLATION AND SELECTED POST SECONDARY NSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A TATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. HE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VI EPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH RESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, .C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND EGIONAL SUMMARIES. (CS)

RANT NUMBER: EPA-T-900591010

NSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA ITY, IOWA.

PONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, ASHINGTON, D. C.

RIS ACCESSION NUMBER: EW003634

RIC ACCESSION NUMBER: ED147159

UBLICATION DATE: 77

ITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT OR UTAH.

NSTITUTION CODE: BBB15099

PONSORING AGENCY CODE: BBB06039

ESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; ESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID ASTES; *UTAH

DRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

ESCRIPTIVE NOTE: 130P.; FOR RELATED DOCUMENTS, SEE SE 023 92-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

BSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, RAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS TAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE NFORMATION FOR THE STATE OF UTAH. THE STUDY CONCERNS ITSELF ITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, OISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, ASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE ROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF HE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT UTLINE STATE LEGISLATION AND SELECTED POST SECONDARY NSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A TATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. HE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VIII EPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH RESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, .C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND EGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003635

ERIC ACCESSION NUMBER: ED147160

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR VERMONT.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES; *VERMONT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 137P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF VERMONT. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION I REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003636

ERIC ACCESSION NUMBER: ED147161

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR VIRGINIA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES; *VIRGINIA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 129P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF VIRGINIA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION III REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003637

ERIC ACCESSION NUMBER: ED147162

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR VIRGIN ISLANDS.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES; *VIRGIN ISLANDS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 94P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE TERRITORY OF THE VIRGIN ISLANDS. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION II REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003638

ERIC ACCESSION NUMBER: ED147163

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR WASHINGTON.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES; *WASHINGTON

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 129P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF WASHINGTON. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION X REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003639

ERIC ACCESSION NUMBER: ED147164

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR WEST VIRGINIA.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES; *WEST VIRGINIA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 97P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF WEST VIRGINIA. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH OF THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPORT OUTLINE STATE LEGISLATION AND SELECTED POST SECONDARY INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. A STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE. THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION III REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHICH PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AND REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003640

ERIC ACCESSION NUMBER: ED147165

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR WISCONSIN.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES; *WISCONSIN

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 142P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOPS STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABLE INFORMATION FOR THE STATE OF WISCONSIN. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORCE PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPO OUTLINE STATE LEGISLATION AND SELECTED POST SECONDA INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENC THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHI PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTO D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL A REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IO CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENC WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003641

ERIC ACCESSION NUMBER: ED147166

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSME FOR WYOMING.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIE: *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEED: PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATIOI *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLI WASTES; *WYOMING

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 140P.; FOR RELATED DOCUMENTS, SEE SE 0: 292-360; CONTAINS OCCASIONAL COLORED PAGES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS EXISTING WORKFORCE LEVELS TRAINING PROGRAMS AND CAREER POTENTIALS AND DEVELOP STAFFING LEVEL PROJECTIONS (1976-1982) BASED ON AVAILABL INFORMATION FOR THE STATE OF WYOMING. THE STUDY CONCERN ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS O AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLI WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES WORKFORC PROFILES, PROJECTIONS, GROWTH AND CAREER OPTIONS FOR EACH O THE AREAS INVESTIGATED. ADDITIONAL SECTIONS OF THE REPOR OUTLINE STATE LEGISLATION AND SELECTED POST SECONDAR INSTITUTIONS WITH FORMAL ENVIRONMENTAL/ENERGY PROGRAMS. STATE PROFILE AND SUMMARY IS INCLUDED FOR CROSS-REFERENCE THE SELECTED BIBLIOGRAPHY IS APPENDED IN THE REGION VII REPORT. THIS DOCUMENT IS ONE IN A SERIES OF 69 WHIC PRESENTS INFORMATION FOR EACH OF THE STATES, WASHINGTON D.C., PUERTO RICO, AND THE VIRGIN ISLANDS, AND NATIONAL AN REGIONAL SUMMARIES. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003642

ERIC ACCESSION NUMBER: ED147167

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT NATIONAL SUMMARY: ALABAMA-INDIANA. VOLUME ONE.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDAR EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTIO CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 178P.; FOR RELATED DOCUMENTS, SEE SE 02. 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT IS ONE IN A FOUR-VOLUME NATIONA SUMMARY WHICH PRESENTS EXISTING WORKFORCE LEVELS, TRAININ PROGRAMS AND CAREER POTENTIALS FOR EACH OF THE STATES WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS. EAC INDIVIDUAL STATE PROGRAM SUMMARY IS FOLLOWED BY A DEPICTIO OF THE CURRENT AND PROJECTED (1976-1981) WORKFORCE FIGURE FOR THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE WASTEWATER, AND ENERGY. AN OVERVIEW OF SELECTE ENVIRONMENTAL/ENERGY EDUCATION PROGRAMS IS ALSO INCLUDED MORE DETAILED INFORMATION MAY BE FOUND IN THE RESPECTIV STATE OR REGIONAL VOLUMES. THIS REPORT INCLUDES TH FOLLOWING STATES: ALABAMA, ALASKA, ARIZONA, ARKANSAS CALIFORNIA, COLORADO, CONNECTICUT, DELAWARE, FLORIDA GEORGIA, HAWAII, IDAHO, ILLINOIS, AND INDIANA. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003643

ERIC ACCESSION NUMBER: ED147168

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, NATIONAL SUMMARY: IOWA-NEBRASKA. VOLUME TWO.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 166P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT IS ONE IN A FOUR-VOLUME NATIONAL SUMMARY WHICH PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS. EACH INDIVIDUAL STATE PROGRAM SUMMARY IS FOLLOWED BY A DEPICTION OF THE CURRENT AND PROJECTED (1976-1981) WORKFORCE FIGURES FOR THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. AN OVERVIEW OF SELECTED ENVIRONMENTAL/ENERGY EDUCATION PROGRAMS IS ALSO INCLUDED. MORE DETAILED INFORMATION MAY BE FOUND IN THE REPECTIVE STATE OR REGIONAL VOLUMES. THIS REPORT INCLUDES THE FOLLOWING STATES: IOWA, KANSAS, KENTUCKY, LOUISIANA, MAINE, MARYLAND, MASSACHUSETTS, MICHIGAN, MINNESOTA, MISSISSIPPI, MISSOURI, MONTANA, AND NEBRASKA. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003644

ERIC ACCESSION NUMBER: ED147169

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, NATIONAL SUMMARY: NEVADA-SOUTH CAROLINA. VOLUME THREE.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 166P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT IS ONE IN A FOUR-VOLUME NATIONAL SUMMARY WHICH PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS. EACH INDIVIDUAL STATE PROGRAM SUMMARY IS FOLLOWED BY A DEPICTION OF THE CURRENT AND PROJECTED (1976-1981) WORKFORCE FIGURES FOR THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. AN OVERVIEW OF SELECTED ENVIRONMENTAL/ENERGY EDUCATION PROGRAMS IS ALSO INCLUDED. MORE DETAILED INFORMATION MAY BE FOUND IN THE RESPECTIVE STATE OR REGIONAL VOLUMES. THIS REPORT INCLUDES THE FOLLOWING STATES: NEVADA, NEW HAMPSHIRE, NEW JERSEY, NEW MEXICO, NEW YORK, NORTH CAROLINA, NORTH DAKOTA, OHIO, OKLAHOMA, OREGON, PENNSYLVANIA, RHODE ISLAND, AND SOUTH CAROLINA. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003645

ERIC ACCESSION NUMBER: ED147170

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, NATIONAL SUMMARY: SOUTH DAKOTA-VIRGIN ISLANDS. VOLUME FOUR.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 166P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT IS ONE IN A FOUR-VOLUME NATIONAL SUMMARY WHICH PRESENTS EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS AND CAREER POTENTIALS FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS. EACH INDIVIDUAL STATE PROGRAM SUMMARY IS FOLLOWED BY A DEPICTION OF THE CURRENT AND PROJECTED (1976-1981) WORKFORCE FIGURES FOR THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. AN OVERVIEW OF SELECTED ENVIRONMENTAL/ENERGY EDUCATION PROGRAMS IS ALSO INCLUDED. MORE DETAILED INFORMATION MAY BE FOUND IN THE RESPECTIVE STATE OR REGIONAL VOLUMES. THIS REPORT INCLUDES THE FOLLOWING STATES: SOUTH DAKOTA, TENNESSEE, TEXAS, UTAH, VERMONT, VIRGINIA, WASHINGTON, WEST VIRGINIA, WISCONSIN, WYOMING, DISTRICT OF COLUMBIA, PUERTO RICO, AND THE VIRGIN ISLANDS. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003646

ERIC ACCESSION NUMBER: ED147171

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT: BUSINESS AND INDUSTRY.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; BUSINESS; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; INDUSTRY; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 74P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS AN INDICATION OF EXISTING WORKFORCE LEVELS AND CAREER POTENTIALS FOR ENVIRONMENTAL/ENERGY OCCUPATIONS WITHIN PRIVATE INDUSTRY. THE STUDY CONCERNS ITSELF WITH THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. THE FORMAT INCLUDES AN INTRODUCTION TO THE STUDY WITH APPROPRIATE DEFINITIONS, THE OBJECTIVES, THE SURVEY APPROACH AND RESULTS, AND CONCLUSIONS. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003647

ERIC ACCESSION NUMBER: ED147172

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT: NATIONAL LEGISLATION.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *FEDERAL LEGISLATION; *MANPOWER NEEDS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 72P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT PRESENTS ABSTRACTS OF FEDERAL ENVIRONMENTAL LEGISLATION IN EACH OF THE ENVIRONMENTAL POLLUTION CONTROL AREAS OF AIR, NOISE, POTABLE WATER, PESTICIDES, RADIATION, SOLID WASTE, WASTEWATER, AND ENERGY. AN ADDITIONAL SECTION OF THE REPORT OUTLINES RELATED ENVIRONMENTAL LEGISLATION CITATIONS FROM THE 1950'S TO THE PRESENT. THIS DOCUMENT IS ONE OF A SERIES OF 69 WHICH PRESENT INFORMATION FOR EACH OF THE STATES, WASHINGTON, D.C., PUERTO RICO, AND THE VIRGIN ISLANDS. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003648

ERIC ACCESSION NUMBER: ED147173

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR REGION I.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 201P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360; CONTAINS OCCASIONAL SMALL PRINT IN TABLES

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFFING LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION I. THIS REGION SERVES THE SIX CONTIGUOUS STATES OF THE NEW ENGLAND AREA: CONNECTICUT, MAINE, MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE, AND WASTEWATER. ADDITIONALLY, A SECTION OVERVIEWING CURRENT ACTIVITIES IN ENERGY AS IT RELATES TO POLLUTION CONTROL AND ABATEMENT IS INCLUDED. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GROWTH TRENDS EVIDENCED BY THE INTIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003649

ERIC ACCESSION NUMBER: ED147174

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR REGION II.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 109P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFF LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION II. THIS REGION SERVES THE STATES OF NEW YORK AND NEW JERSEY AND ALSO INCLUDES THE COMMONWEALTH OF PUERTO RICO AND THE VIRGIN ISLANDS. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE, AND WASTEWATER. ADDITIONALLY, A SECTION OVERVIEWING CURRENT ACTIVITIES IN ENERGY AS IT RELATES TO POLLUTION CONTROL AND ABATEMENT IS INCLUDED. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GROWTH TRENDS EVIDENCED BY THE INITIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003650

ERIC ACCESSION NUMBER: ED147175

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR REGION III.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 115P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360 ; FIGURES MAY BE MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFFING LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION III. THIS REGION SERVES THE MIDDLE ATLANTIC STATES OF DELAWARE, MARYLAND, PENNSYLVANIA, VIRGINIA, WEST VIRGINIA, AND THE DISTRICT OF COLUMBIA. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE, AND WASTEWATER. ADDITIONALLY, A SECTION OVERVIEWING CURRENT ACTIVITIES IN ENERGY AS IT RELATES TO POLLUTION CONTROL AND ABATEMENT IS INCLUDED. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GROWTH TRENDS EVIDENCED BY THE INITIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003651

ERIC ACCESSION NUMBER: ED147176

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR REGION IV.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 143P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360 ; FIGURES MAY BE MARGINALLY LEGIBLE

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFFING LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION IV. THIS REGION SERVES THE EIGHT SOUTHEASTERN STATES OF ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, SOUTH CAROLINA, AND TENNESSEE. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE, AND WASTEWATER. ADDITIONALLY, A SECTION OVERVIEWING CURRENT ACTIVITIES IN ENERGY AS IT RELATES TO POLLUTION CONTROL AND ABATEMENT IS INCLUDED. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GRWOTH TRENDS EVIDENCED BY THE INITIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003652

ERIC ACCESSION NUMBER: ED147177

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR REGION V.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 99P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFFING LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION V. THIS REGION SERVES THE SIX EAST-NORTH CENTRAL STATES OF ILLINOIS, INDIANA, MICHIGAN, MINNESOTA, OHIO, AND WISCONSIN. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE AND WASTEWATER. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GROWTH TRENDS EVIDENCED BY THE INITIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY,

[illegible]

[illegible] ENERGY WORKFORCE ASSESSMENT

[illegible]

BBB06039

[illegible] CONTROL; *CAREER OPPORTUNITIES; [illegible] ENERGY; ENVIRONMENT; *MANPOWER NEEDS; [illegible] *POLLUTION; POST SECONDARY [illegible] LEGISLATION; WATER POLLUTION

[illegible] HC $6.01 PLUS POSTAGE.

[illegible] RELATED DOCUMENTS, SEE SE 023

[illegible] REPRESENTS A DETAILED SUMMATION OF [illegible] LEVELS, TRAINING PROGRAMS, CAREER [illegible] LEVEL PROJECTIONS THROUGH 1981 FOR [illegible] REGION SERVES THE GULF FRINGE STATES OF [illegible] MEXICO, OKLAHOMA, AND LOUISIANA. THE [illegible] PROGRAMS CONSIDERED INCLUDE AIR, NOISE, [illegible] WATER, RADIATION, SOLID WASTE, AND [illegible], A SECTION OVERVIEWING CURRENT [illegible] AS IT RELATES TO POLLUTION CONTROL AND [illegible] THE CONTENT OF EACH SECTION IS [illegible] AUTHORITY WHICH EPA POSSESSES. THE [illegible] TO PROVIDE A STRATEGY FOR SUPPORTING [illegible] ENVIRONMENTAL EDUCATION AND CAREER TRAINING [illegible] NEEDS AND GROWTH TRENDS EVIDENCED BY THE [illegible] ASSESSMENT. [illegible] SELECTED BIBLIOGRAPHY IS [illegible]

[illegible]

[illegible] FIELD RESEARCH CENTER INC., IOWA

[illegible] ENVIRONMENTAL PROTECTION AGENCY,

[illegible]

[illegible]

[illegible] ENERGY WORKFORCE ASSESSMENT

[illegible]

[illegible] CONTROL; *CAREER OPPORTUNITIES; [illegible] ENVIRONMENT; *MANPOWER NEEDS; [illegible] *POLLUTION; POST SECONDARY [illegible] LEGISLATION; WATER POLLUTION

[illegible] HC $6.01 PLUS POSTAGE.

[illegible] RELATED DOCUMENTS, SEE SE 023

[illegible] REPRESENTS A DETAILED SUMMATION OF [illegible] LEVELS, TRAINING PROGRAMS, CAREER [illegible] LEVEL PROJECTIONS THROUGH 1981 FOR [illegible] REGION SERVES THE STATES OF IOWA, [illegible] NEBRASKA. THE SPECIFIC POLLUTION [illegible] INCLUDE AIR, NOISE, PESTICIDES, POTABLE [illegible] SOLID WASTE, AND WASTEWATER. THE CONTENT [illegible] LIMITED TO THE CONTROL AUTHORITY WHICH [illegible] STUDY WAS UNDERTAKEN TO PROVIDE A [illegible] AND IMPLEMENTING ENVIRONMENTAL [illegible] INITIAL PROGRAMS BASED ON NEEDS AND [illegible] BY THE INITIAL WORKFORCE ASSESSMENT. [illegible] INCLUDED FOR REFERENCE. (CS)

[illegible]

[illegible] RESEARCH CENTER INC., IOWA

[illegible] ENVIRONMENTAL PROTECTION AGENCY,

[illegible]

[illegible]

[illegible] ENERGY WORKFORCE ASSESSMENT

[illegible]

[illegible] CONTROL; *CAREER OPPORTUNITIES; [illegible] ENERGY; ENVIRONMENT; *MANPOWER NEEDS; [illegible] *POLLUTION; POST SECONDARY [illegible] STATE LEGISLATION; WATER POLLUTION

[illegible] HC $6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 106P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFFING LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION VIII. THIS REGION SERVES THE ROCKY MOUNTAIN - PRAIRIE REGION AND INCLUDES THE STATES OF COLORADO, MONTANA, WYOMING, UTAH, NORTH DAKOTA, AND SOUTH DAKOTA. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE, AND WASTEWATER. ADDITIONALLY, A SECTION OVERVIEWING CURRENT ACTIVITIES IN ENERGY AS IT RELATES TO POLLUTION CONTROL AND ABATEMENT IS INCLUDED. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GROWTH TRENDS EVIDENCED BY THE INITIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003656

ERIC ACCESSION NUMBER: ED147181

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR REGION IX.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 83P.; FOR RELATED DOCUMENTS, SEE SE 023 292-360 ; FIGURES MAY REPRODUCE POORLY

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFFING LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION IX. THIS REGION SERVES THE STATES OF ARIZONA, CALIFORNIA, HAWAII, AND NEVADA. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION SOLID WASTE, AND WASTEWATER. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GROWTH TRENDS EVIDENCED BY THE INITIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003657

ERIC ACCESSION NUMBER: ED147182

PUBLICATION DATE: 77

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT FOR REGION X.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CAREER OPPORTUNITIES; *EDUCATIONAL PROGRAMS; ENERGY; ENVIRONMENT; *MANPOWER NEEDS; NATIONAL SURVEYS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; RADIATION; *STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE; SOLID WASTES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 101P.; FOR RELATED DOCUMENTS, SEE SE 023 292-359 ; FIGURES MAY REPRODUCE POORLY

ISSUE: RIEAPR78

ABSTRACT: THIS REPORT REPRESENTS A DETAILED SUMMATION OF EXISTING WORKFORCE LEVELS, TRAINING PROGRAMS, CAREER POTENTIAL, AND STAFFING LEVEL PROJECTIONS THROUGH 1981 FOR EPA REGION X. THIS REGION SERVES THE STATES OF ALASKA, IDAHO, OREGON, AND WASHINGTON. THE SPECIFIC POLLUTION PROGRAMS CONSIDERED INCLUDE AIR, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE, AND WASTEWATER. ADDITIONALLY, A SECTION OVERVIEWING CURRENT ACTIVITIES IN ENERGY AS IT RELATES TO POLLUTION CONTROL AND ABATEMENT IS INCLUDED. THE CONTENT OF EACH SECTION IS LIMITED TO THE CONTROL AUTHORITY WHICH EPA POSSESSES. THE STUDY WAS UNDERTAKEN TO PROVIDE A STRATEGY FOR SUPPORTING AND IMPLEMENTING ENVIRONMENTAL EDUCATION AND CAREER TRAINING PROGRAMS BASED ON NEEDS AND GROWTH TRENDS EVIDENCED BY THE INITIAL WORKFORCE ASSESSMENT. A SELECTED BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

GRANT NUMBER: EPA-T-900591010

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA

CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003658

ERIC ACCESSION NUMBER: ED148623

PUBLICATION DATE: 71

TITLE: AIR FORCE INSTITUTE OF TECHNOLOGY, CIVIL ENGINEERING SCHOOL: ENVIRONMENTAL PROTECTION COURSE.

INSTITUTION CODE: BBB07794

DESCRIPTOR: ACOUSTICS; AIR POLLUTION CONTROL; *ENVIRONMENTAL EDUCATION; FEDERAL LEGISLATION; GUIDELINES; HERBICIDES; *INSTRUCTIONAL MATERIALS; *MILITARY ORGANIZATIONS; PESTICIDES; *POLLUTION; RADIATION; WATER POLLUTION CONTROL; SOLID WASTES; *WASTEWATER TREATMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 472P.

ISSUE: RIEMAY78

ABSTRACT: THIS DOCUMENT CONTAINS INFORMATION ASSEMBLED BY THE CIVIL ENGINEERING SCHOOL TO MEET THE INITIAL REQUIREMENTS OF NEPA 1969 AND EXECUTIVE ORDERS WHICH REQUIRED THE AIR FORCE TO IMPLEMENT AN EFFECTIVE ENVIRONMENTAL PROTECTION PROGRAM. THIS COURSE PRESENTS THE VARIOUS ASPECTS OF AIR FORCE ENVIRONMENTAL PROTECTION PROBLEMS WHICH MILITARY PERSONNEL SHOULD UNDERSTAND. SPECIFIC SECTIONS OF THE COURSE DEAL WITH WATER QUALITY, WASTEWATER TREATMENT, AIR POLLUTION CONTROL, HERBICIDES AND PESTICIDES, SOLID WASTE MANAGEMENT, RADIATION, NOISE, AND PREPARATION OF ENVIRONMENTAL IMPACT STATEMENTS. (CS)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, THE OHIO STATE UNIVERSITY, 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OHIO 43212 (ON LOAN)

INSTITUTION NAME: AIR FORCE INST. OF TECH., WRIGHT-PATTERSON AFB, OHIO. SCHOOL OF ENGINEERING.

IRIS ACCESSION NUMBER: EW003659

ERIC ACCESSION NUMBER: ED149998

PUBLICATION DATE: 76

TITLE: THE ENVIRONMENTAL PROTECTION AGENCY: LEGISLATION, PROGRAMS AND ORGANIZATION.

INSTITUTION CODE: BBB10599

DESCRIPTOR: BUDGETING; *ENVIRONMENT; *FEDERAL LEGISLATION; NATURAL RESOURCES; *ORGANIZATION; *POLLUTION; *PROGRAM ADMINISTRATION; PROGRAM DESCRIPTIONS; *ENVIRONMENTAL PROTECTION AGENCY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 59P.; CONTAINS OCCASIONAL LIGHT TYPE

ISSUE: RIEJUN78

ABSTRACT: THIS DOCUMENT IS DESIGNED TO INTRODUCE THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND ITS PROGRAMS. IT IS ORGANIZED INTO FOUR CATEGORIES WHICH DISCUSS THE LEGISLATION AUTHORIZING EPA ACTIVITIES, THE HISTORY AND PRESENT ORGANIZATION, THE POLLUTION CONTROL PROGRAMS OPERATED BY THE AGENCY, AND BUDGETARY APPROPRIATIONS. SPECIFIC PROGRAM RESPONSIBILITIES INCLUDE AIR, WATER, SOLID WASTE, PESTICIDES, RADIATION, NOISE AND TOXIC SUBSTANCES. (CS)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. LIBRARY SYSTEMS BRANCH.

IRIS ACCESSION NUMBER: EW003660

ERIC ACCESSION NUMBER: ED149997

PUBLICATION DATE: SEP 76

TITLE: ENVIRONMENTAL QUALITY, THE SEVENTH ANNUAL REPORT OF THE COUNCIL ON ENVIRONMENTAL QUALITY.

INSTITUTION CODE: BBB05544

DESCRIPTOR: ANNUAL REPORTS; *ECONOMICS; *ENERGY; *ENVIRONMENT; FEDERAL GOVERNMENT; FEDERAL LEGISLATION; LAND USE; NATURAL RESOURCES; *POLLUTION; *QUALITY CONTROL; *COUNCIL ON ENVIRONMENTAL QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$20.75 PLUS POSTAGE.

DESCRIPTIVE NOTE: 394P.; CONTAINS OCCASIONAL SMALL PRINT AND PHOTOGRAPHS WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEJUN78

ABSTRACT: THIS SEVENTH ANNUAL REPORT DISCUSSES THE STATE OF THE ENVIRONMENT AND NEW OR CONTINUING EFFORTS TO IMPROVE IT. THE TOPICS ARE TREATED IN TWO PARTS. THE FIRST PART DISCUSSES EVENTS OF THE PAST YEAR AND CITES NEW LEGISLATION, COURT RULINGS, AND OTHER MAJOR DEVELOPMENTS AFFECTING THE ENVIRONMENT. PART TWO FOCUSES ON CONDITIONS AND TRENDS BY ANALYZING DATA TO SHOW ENVIRONMENTAL IMPROVEMENT OR DETERIORATION OVER THE YEARS. CHAPTERS IN PART ONE OF THE REPORT DEAL WITH POLLUTION, LAND USE AND COASTAL ZONE MANAGEMENT, NATURAL RESOURCES, ENERGY, INTERNATIONAL EVENTS, AND ECONOMICS. CHAPTERS IN PART TWO EXPLORE THE ENVIRONMENTAL CONSEQUENCES OF ENERGY TECHNOLOGY, AIR QUALITY, WATER QUALITY, AND ENVIRONMENTAL INDICATORS. CURRENT PROJECTS OF THE COUNCIL ON ENVIRONMENTAL QUALITY ARE INCLUDED IN THE APPENDIX. (CS)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 041-010-00031-2, $3.50)

INSTITUTION NAME: COUNCIL ON ENVIRONMENTAL QUALITY, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003661

ERIC ACCESSION NUMBER: ED151212

PUBLICATION DATE: JUL 74

TITLE: REGISTER OF ENVIRONMENTAL ENGINEERING GRADUATE PROGRAMS. THIRD EDITION.

PERSONAL AUTHOR: KLOSKY, JANE C., ED.

INSTITUTION CODE: BBB07746; BBB15350

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: DEGREE REQUIREMENTS; *DIRECTORIES; DOCTORAL PROGRAMS; *ENGINEERING EDUCATION; *ENVIRONMENTAL EDUCATION; *GRADUATE STUDY; *HIGHER EDUCATION; SCIENCE EDUCATION; *UNIVERSITIES

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$27.45 PLUS POSTAGE.

DESCRIPTIVE NOTE: 523P.; CONTAINS SMALL PRINT

ISSUE: RIEJUL78

ABSTRACT: THIS DOCUMENT SUMMARIZES THE STATUS OF ENVIRONMENTAL ENGINEERING PROGRAMS IN THE UNITED STATES AND CANADA TODAY. THE VOLUME CONTAINS INFORMATION ON OVER 70 UNIVERSITY PROGRAMS. EACH LISTING GIVES A TWO- OR THREE-PARAGRAPH DESCRIPTION OF THE PROGRAM, INSTITUTION, ETC. IN ADDITION, INFORMATION CAN BE FOUND ON ADMISSION REQUIREMENTS, DEGREE REQUIREMENTS, COURSE WORK, FACULTY, STUDENTS, AND FACILITIES. (AUTHOR/BB)

AVAILABILITY: DR. JOE MALINA, DIRECTOR OF ENVIRONMENTAL HEALTH ENGINEERING, 305 ENGINEERING LABS BUILDING, UNIVERSITY OF TEXAS, AUSTIN, TEXAS 78712 (FREE)

INSTITUTION NAME: AMERICAN ACADEMY FOR ENVIRONMENTAL ENGINEERS, ROCKVILLE, MD.; ASSOCIATION OF ENVIRONMENTAL ENGINEERING PROFESSORS.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003662

ERIC ACCESSION NUMBER: ED152518

PUBLICATION DATE: DEC 75

TITLE: ENVIRONMENTAL QUALITY, THE SIXTH ANNUAL REPORT OF THE COUNCIL ON ENVIRONMENTAL QUALITY.

INSTITUTION CODE: BBB05544

DESCRIPTOR: ANNUAL REPORTS; ECONOMICS; *ENERGY; *ENVIRONMENT; *FEDERAL GOVERNMENT; FEDERAL LEGISLATION; LAND USE; *NATURAL RESOURCES; *POLLUTION; PUBLIC HEALTH; QUALITY CONTROL; COUNCIL ON ENVIRONMENTAL QUALITY

EDRS PRICE: EDRS PRICE MF-$1.50 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 800P.; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEAUG78

ABSTRACT: THIS SIXTH ANNUAL REPORT DISCUSSES THE STATE OF THE ENVIRONMENT AND PROGRESS ACCOMPLISHED IN MEETING THE GOALS AND OBJECTIVES ESTABLISHED FOR AN IMPROVED ENVIRONMENT. EACH OF THE SEVEN CHAPTERS DEALS WITH AN IMPORTANT ENVIRONMENTAL PARAMETER. CHAPTER ONE IS DEVOTED TO CARCINOGENS IN THE ENVIRONMENT. CHAPTER TWO PRESENTS PERSPECTIVES ON THE ENVIRONMENT AND DISCUSSES THE CURRENT PROBLEMS ASSOCIATED WITH AIR, WATER, NOISE, SOLID WASTES, HAZARDOUS SUBSTANCES, ENERGY, COASTAL ZONES, WATER RESOURCES AND PUBLIC LANDS. ENVIRONMENTAL CONDITIONS, TRENDS AND ECONOMICS ARE EXPLORED IN CHAPTERS THREE AND FOUR. INTERNATIONAL ACTIVITIES ARE REPORTED IN CHAPTER FIVE. THE SIXTH CHAPTER REVIEWS THE EFFECTS OF THE NATIONAL ENVIRONMENTAL POLICY ACT ESPECIALLY AS IT RELATES TO THE REQUIREMENTS FOR ENVIRONMENTAL IMPACT STATEMENTS. THE FINAL CHAPTER DESCRIBES THE STUDIES BEING CONDUCTED BY THE COUNCIL ON ENVIRONMENTAL QUALITY. (CS)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 040-000-00337-1, $6.60)

INSTITUTION NAME: COUNCIL ON ENVIRONMENTAL QUALITY, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003663

ERIC ACCESSION NUMBER: ED153864

PUBLICATION DATE: MAY 77

TITLE: ENVIRONMENTAL MICROTHESAURUS--A HIERARCHICAL LIST OF INDEXING TERMS USED BY NTIS.

INSTITUTION CODE: BBB08423

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMISTRY; *ENVIRONMENT; INDEXES (LOCATERS); PESTICIDES; *POLLUTION; *SUBJECT INDEX TERMS; *THESAURI; VOCABULARY; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WORD LISTS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 104P.

ISSUE: RIESEP78

ABSTRACT: INTEGRATED IN THIS MICRO-THESAURUS OF INDEXING TERMS ARE KEYWORDS FROM THE DEPARTMENT OF DEFENSE THESAURUS, THE ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION THESAURUS, THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION THESAURUS, AND THE THESAURUS USED BY THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). INCLUDED ARE CONTROLLED FREE LANGUAGE TERMS WHICH MAY BE USEFUL IN SEARCHING THE NTIS DATA BASE. THE TERMS ARE LISTED HIERARCHICALLY WITH MAIN ENTRIES FOLLOWED BY NARROWER TERMS, BROADER TERMS, RELATED TERMS, AND SCOPE NOTES. THE PARENT THESAURUS SOURCE OF EACH TERM IS IDENTIFIED. THE MICRO-THESAURUS IS DIVIDED INTO TWO SECTIONS. THE FIRST SECTION CONTAINS MORE THAN 1800 TERMS THAT EXPRESS ENVIRONMENTAL CONCEPTS RELATING TO WATER, AIR, NOISE, AND RADIATION POLLUTION, DISPOSAL OF SOLID WASTE, AND ENVIRONMENTAL HEALTH. THE SECOND SECTION LISTS MORE THAT 550 CHEMICALS THAT ARE IMPORTANT TO ENVIRONMENTAL STUDIES. (BB)

REPORT NUMBER: NTIS/SR-77/03

INSTITUTION NAME: NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), SPRINGFIELD, VA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003664

ERIC ACCESSION NUMBER: ED015242

PUBLICATION DATE: AUG65

TITLE: AGRICULTURAL CHEMICALS SALES AND SERVICE. AGRICULTURAL SUPPLY - SALES AND SERVICE OCCUPATIONS, MODULE NUMBER [illegible]

INSTITUTION CODE: RUF67355

DESCRIPTOR: *AGRICULTURAL CHEMICAL OCCUPATIONS; *AGRICULTURAL SUPPLY OCCUPATIONS; BIBLIOGRAPHIES; ENTOMOLOGY; HIGH SCHOOLS; MERCHANDISE INFORMATION; MERCHANDISING; *PESTICIDES; POST SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY (SUBJECT FIELDS); *VOCATIONAL AGRICULTURE

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 67P.

ISSUE: CORREF

ABSTRACT: THE PURPOSE OF THIS GUIDE IS TO ASSIST TEACHERS IN PREPARING HIGH SCHOOL OR POST-SECONDARY STUDENTS FOR EMPLOYMENT IN AGRICULTURAL CHEMICAL SALES AND SERVICE. ONE OF A SERIES OF MODULES FOR AGRICULTURAL SUPPLY OCCUPATIONS, IT WAS DEVELOPED ON THE BASIS OF DATA FROM STATE STUDIES BY A NATIONAL TASK FORCE. APPLICABLE TO TWO LEVELS OF INSTRUCTION, THE MODULE INCLUDES SECTIONS ON (1) CHEMICALS IN AGRICULTURE, (2) PEST IDENTIFICATION, (3) PESTICIDE RECOMMENDATION RESPONSIBILITY, (4) PESTICIDE APPLICATION RECOMMENDATIONS, (5) CUSTOMER ADVICE ON CHEMICAL SAFETY, (6) LABELS AND LITERATURE INTERPRETATION, AND (7) CHEMICAL MERCHANDISING METHODS. SUGGESTIONS FOR INTRODUCING THE MODULE AND EVALUATING THE EDUCATIONAL OUTCOMES, AND SOURCES OF INSTRUCTIONAL MATERIALS ARE GIVEN. EACH SECTION INCLUDES SUBJECT MATTER CONTENT, TEACHING-LEARNING ACTIVITIES, INSTRUCTIONAL AIDS, AND REFERENCES. THE MODULE IS DESIGNED FOR 30 HOURS OF CLASS INSTRUCTION, 6 HOURS OF LABORATORY EXPERIENCE, AND 72 HOURS OF OCCUPATIONAL EXPERIENCE. TEACHERS NEED A BACKGROUND AND STUDENTS AN OCCUPATIONAL GOAL IN THE FIELD. THIS DOCUMENT IS AVAILABLE FOR A LIMITED PERIOD AS PART OF A SET (VT 000 632 - 000 644) FOR $7.00 FROM THE CENTER FOR VOCATIONAL AND TECHNICAL EDUCATION, THE OHIO STATE UNIVERSITY, 980 KINNEAR ROAD, COLUMBUS, OHIO 43212. (JM)

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. CENTER FOR VOCATIONAL AND TECHNICAL EDUCATION.

IRIS ACCESSION NUMBER: EW003665

ERIC ACCESSION NUMBER: ED116921

PUBLICATION DATE: DEC 74

TITLE: ENVIRONMENTAL QUALITY, THE FIFTH ANNUAL REPORT OF THE COUNCIL ON ENVIRONMENTAL QUALITY.

INSTITUTION CODE: BBB05544

DESCRIPTOR: ANNUAL REPORTS; ECONOMICS; ENERGY; ENVIRONMENT; *FEDERAL GOVERNMENT; FEDERAL LEGISLATION; LAND USES; *NATURAL RESOURCES; *POLLUTION; *QUALITY CONTROL; *COUNCIL ON ENVIRONMENTAL QUALITY

EDRS PRICE: EDRS PRICE MF-$1.08 HC-$32.37 PLUS POSTAGE

DESCRIPTIVE NOTE: 627P.; OCCASIONAL SMALL PRINT

ISSUE: RIEMAY76

ABSTRACT: THIS FIFTH ANNUAL REPORT DISCUSSES THE STATE OF THE ENVIRONMENT AND EFFORTS TO IMPROVE IT. THE FIRST CHAPTER PRESENTS AN OVERVIEW OF LAND USE: THE EFFECTS OF DEVELOPMENT ON ENVIRONMENTAL, ECONOMIC, AND SOCIAL FACTORS; THE STIMULANTS OF DEVELOPMENT SUCH AS FEDERAL TAXES, FUNDING OF PUBLIC FACILITIES, AND ENERGY-RELATED DECISIONS; AND LAND USE CONTROLS EMPLOYED BY STATE AND REGIONAL GOVERNMENTS. THE SECOND CHAPTER DEALS WITH GOVERNMENT PROGRAMS IN ENERGY, AIR AND WATER QUALITY, SOLID WASTE DISPOSAL, NOISE, MAN-MADE POLLUTANTS, AND WILDLIFE AND HABITAT PROTECTION. THE CONDITION OF THE ENVIRONMENT AND TRENDS IN ENVIRONMENTAL QUALITY ARE EXPLORED IN THE THIRD CHAPTER. THE FOURTH CHAPTER REVIEWS THE EFFECTS OF THE NATIONAL ENVIRONMENTAL POLICY ACT EMPHASIZING THE STRUCTURE OF THE ENVIRONMENTAL IMPACT STATEMENT PROCESS. INTERNATIONAL ENVIRONMENTAL ACTIVITIES ARE REPORTED IN THE FIFTH CHAPTER. THE UNITED NATIONS ENVIRONMENTAL PROGRAM AND OTHER BILATERAL OR MULTILATERAL PROGRAMS ARE DISCUSSED. THE FINAL CHAPTER DESCRIBES THE WORK OF THE COUNCIL OF ENVIRONMENTAL QUALITY OVER THE PAST YEAR. PROJECTS LISTED INCLUDE OFFSHORE NUCLEAR POWER PLANTS, WASTEWATER TREATMENT, PESTICIDES, AND FUEL ECONOMY. (MR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NO. 4000-00327, $5.20)

INSTITUTION NAME: COUNCIL ON ENVIRONMENTAL QUALITY, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003667

ERIC ACCESSION NUMBER: ED153804

PUBLICATION DATE: 77

TITLE: STATE ENVIRONMENTAL PROGRAMS: A COMPENDIUM OF FEDERAL AND STATE PROGRAMS PREPARED FOR THE CONGRESSIONAL DELEGATIONS.

INSTITUTION CODE: BBB08283

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENTAL INFLUENCES; MANPOWER DEVELOPMENT; ORGANIZATION; PESTICIDES; POLLUTION; *WATER POLLUTION CONTROL; ENVIRONMENTAL PROTECTION AGENCY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 99P.; CONTAINS OCCASIONAL COLORED PAGES WHICH MAY NOT REPRODUCE WELL

ISSUE: RIESEP78

ABSTRACT: THIS DOCUMENT PROVIDES AN OVERALL PERSPECTIVE OF THE ACTIVITIES OF THE ENVIRONMENTAL PROTECTION AGENCY, REGION VII. EMPHASIS IS GIVEN TO THE PROGRAM ACTIVITIES OF THE WATER DIVISION, AIR AND HAZARDOUS MATERIALS DIVISION, AND THE ENFORCEMENT DIVISION. ISSUES AND PROBLEMS ARE DISCUSSED ON A REGIONAL AND STATE-BY-STATE BASIS. REGION VII INCLUDES THE STATES OF IOWA, KANSAS, MISSOURI AND NEBRASKA. (CS)

REPORT NUMBER: EPA-907/9-77-002

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, KANSAS CITY, MO.

IRIS ACCESSION NUMBER: EW003668

ERIC ACCESSION NUMBER: ED153791

PUBLICATION DATE: 75

TITLE: A PLAN FOR ENVIRONMENTAL/ENERGY EDUCATION IN THE PUBLIC COMMUNITY COLLEGE SYSTEM OF ILLINOIS.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; *CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; *HIGHER EDUCATION; JUNIOR COLLEGES; PESTICIDES; WATER POLLUTION CONTROL; ILLINOIS; COURSE DESCRIPTIONS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE.

DESCRIPTIVE NOTE: 135P.

ISSUE: RIESEP78

ABSTRACT: THIS REPORT EXAMINES THE ENVIRONMENTAL TRAINING EFFORTS OF COMMUNITY COLLEGES IN ILLINOIS. THE TEXT INCLUDES A SERIES OF NINE MODEL ENVIRONMENTAL PROTECTION CURRICULA AND OUTLINES APPROPRIATE COURSE DESCRIPTIONS FOR POLLUTION CONTROL AND ABATEMENT, RADIATION, AND GENERAL ENVIRONMENTAL TECHNOLOGY. A FINAL SECTION OFFERS RECOMMENDATIONS WHICH ADDRESS EXISTING AND FUTURE ENVIRONMENTAL CONCERNS AND THEIR RELATIONSHIP TO HIGHER EDUCATION. (CS)

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003669

ERIC ACCESSION NUMBER: ED154998

PUBLICATION DATE: 77

TITLE: ENVIRONMENTAL TOXICOLOGY: A GUIDE TO INFORMATION SOURCES. VOLUME 7 IN THE "MAN AND THE ENVIRONMENT INFORMATION GUIDE" SERIES.

PERSONAL AUTHOR: RUDD, ROBERT L.

INSTITUTION CODE: BBB15665

DESCRIPTOR: AIR POLLUTION CONTROL; *ANNOTATED BIBLIOGRAPHIES; CHEMISTRY; *ECOLOGY; *ENVIRONMENT; ORGANIC CHEMISTRY; *PESTICIDES; *POLLUTION; SCIENCE EDUCATION; WATER POLLUTION CONTROL; *TOXICOLOGY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 266P.

ISSUE: RIEOCT78

ABSTRACT: THIS ANNOTATED BIBLIOGRAPHY ON ENVIRONMENTAL TOXICOLOGY BRINGS TOGETHER A DIVERSE SET OF INFORMATION SOURCES FROM THE PHYSICAL, SOCIAL, AND NATURAL SCIENCES. THESE SOURCES INCLUDE PERIODICAL LITERATURE, GOVERNMENT DOCUMENTS, SCIENTIFIC JOURNALS, AND TEACHING MATERIALS. THE VOLUME IS DIVIDED INTO SIXTEEN SECTIONS ORGANIZED INTO FOUR PARTS: (1) GENERAL SOURCES; (2) INTENTIONAL ENVIRONMENTAL POLLUTION; (3) UNINTENTIONAL ENVIRONMENTAL POLLUTION; AND (4) SPECIAL ASPECTS. APPENDED ARE LISTS OF ABBREVIATIONS AND TERMS, AND COMMON AND CHEMICAL NAMES ALONG WITH AN AUTHOR

AND SUBJECT INDEX. (BB)

AVAILABILITY: GALE RESEARCH COMPANY, BOOK TOWER, DETROIT, MICHIGAN 48226 (NO PRICE QUOTED)

INSTITUTION NAME: GALE RESEARCH CO., DETROIT, MICH.

IRIS ACCESSION NUMBER: EW003670

ERIC ACCESSION NUMBER: ED155012

PUBLICATION DATE: 77

TITLE: TOPICS AND TERMS IN ENVIRONMENTAL PROBLEMS.

PERSONAL AUTHOR: HOLUM, JOHN R.

DESCRIPTOR: CONSERVATION (ENVIRONMENT); ECOLOGY; *ENERGY; *ENVIRONMENT; *GLOSSARIES; *NATURAL RESOURCES; PESTICIDES; POLLUTION; *REFERENCE BOOKS; *WORLD PROBLEMS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 729P.; PAPER PRESENTED AT THE ANNUAL MEETING OF THE AMERICAN EDUCATIONAL RESEARCH ASSOCIATION (TORONTO, CANADA, MARCH 27-31, 1978)

ISSUE: RIEOCT78

ABSTRACT: THIS REFERENCE IS AN EXPANDED GLOSSARY OF TOPICS AND TERMS CURRENTLY RELATED TO ENVIRONMENTAL PROBLEMS. THESE TOPICS AND TERMS ARE ASSOCIATED WITH ENERGY, AIR POLLUTION, WATER POLLUTION, WASTES, AND PESTICIDES. INCLUDED ARE 239 MAIN ENTRIES RANGING FROM ACARICIDE TO WEATHERING. EACH ENTRY BRIEFLY DESCRIBES THE TOPIC OR TERM AND OFTEN PRESENTS A DISCUSSION OF THE RELATED ISSUES. IN THESE DISCUSSIONS, AN ATTEMPT IS MADE TO PRESENT THE DIFFERENT VIEWS WHERE CONTROVERSY EXISTS. (MR)

AVAILABILITY: JOHN WILEY & SONS, INC., 605 THIRD AVENUE, NEW YORK, NEW YORK 10016 ($24.00)

IRIS ACCESSION NUMBER: EW003671

ERIC ACCESSION NUMBER: ED156422

PUBLICATION DATE: JAN 77

TITLE: REGISTER OF ENVIRONMENTAL ENGINEERING UNDERGRADUATE PROGRAMS.

PERSONAL AUTHOR: AULENBACH, DONALD B., ED.

SPONSORING AGENCY CODE: BBB07746

DESCRIPTOR: COLLEGE FACULTY; *DEGREE REQUIREMENTS; *ENGINEERING EDUCATION; *ENVIRONMENT; *HIGHER EDUCATION; PROGRAM DESCRIPTIONS; SURVEYS; *UNDERGRADUATE STUDY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 250P.

ISSUE: RIENOV78

ABSTRACT: THIS DOCUMENT OUTLINES UNDERGRADUATE PROGRAMS LEADING TO DEGREES IN ENVIRONMENTAL ENGINEERING FROM 22 SCHOOLS ACROSS THE COUNTRY. THE REGISTER INCLUDES GENERAL INFORMATION ON THE SCHOOL AND PROGRAM AS WELL AS SPECIFIC INFORMATION ON ADMISSION REQUIREMENTS, DEGREE REQUIREMENTS, COURSE WORK, AND FACULTY AND STUDENT DATA. A COPY OF THE QUESTIONNAIRE USED IN COLLECTING THE DATA IS INCLUDED. (CS)

AVAILABILITY: PROFESSOR DONALD B. AULENBACH, DEPT. OF CHEMICAL AND ENVIRONMENTAL ENGINEERING, RENSSELAER POLYTECHNIC INST., TROY, NEW YORK 12181 ($6.00)

SPONSORING AGENCY NAME: ASSOCIATION OF ENVIRONMENTAL ENGINEERING PROFESSORS.

IRIS ACCESSION NUMBER: EW003673

ERIC ACCESSION NUMBER: ED156467

PUBLICATION DATE: SEP 77

TITLE: U.S. DIRECTORY OF ENVIRONMENTAL SOURCES, 2ND EDITION.

INSTITUTION CODE: BBB06039

DESCRIPTOR: *DIRECTORIES; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; FEDERAL GOVERNMENT; *GOVERNMENT PUBLICATIONS; *INFORMATION DISSEMINATION; INFORMATION NETWORKS; *INFORMATION SOURCES; *INTERNATIONAL ORGANIZATIONS; INTERNATIONAL PROGRAMS; *UNITED NATIONS ENVIRONMENT PROGRAM

EDRS PRICE: EDRS PRICE MF-$1.33 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 745P.; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIENOV78

ABSTRACT: AS A PART OF THE UNITED NATIONS ENVIRONMENT PROGRAM (UNEP) INTERNATIONAL REFERAL SYSTEM (IRS), THE U.S. ENVIRONMENTAL PROTECTION AGENCY HAS BEEN DESIGNATED THE U.S. NATIONAL FOCAL POINT. THIS PUBLICATION IS THE SECOND EDITION OF THE CATALOGUE OF ENVIRONMENTAL SOURCES IN THE UNITED STATES. THE PURPOSE OF THIS PUBLICATION IS TO GUIDE THE UNEP/IRS USER TO SOURCES OF ENVIRONMENTAL INFORMATION IN THE U.S. THE TWO PRINCIPAL SECTIONS OF THE PUBLICATION ARE THE SUBJECT LISTING AND THE DIRECTORY OF SOURCES. OTHER SECTIONS INCLUDE ALPHABETICAL AND GEOGRAPHICAL LISTINGS OF REGISTERED SOURCES AND OTHER USAGE INFORMATION. INFORMATION INCLUDES NAME OF SOURCE, ADDRESS, TELEPHONE NUMBER AND ACTIVITIES. (MR)

REPORT NUMBER: EPA-840-77-009; PB-274-110

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003674

ERIC ACCESSION NUMBER: ED156479

PUBLICATION DATE: 77

TITLE: GROWTH: HOW MUCH IS TOO MUCH? STUDENT BOOK. SCIENCE MODULE (9TH-10TH GRADE BIOLOGY). REVISED EDITION.

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: COURSE CONTENT; *ECOLOGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LAND USE; *POPULATION EDUCATION; SCIENCE EDUCATION; *SECONDARY EDUCATION; WASTE DISPOSAL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 104P.; FOR RELATED DOCUMENTS, SEE SE 024 441-447; PORTIONS OF OR THE ENTIRE PAGE OF PAGES 5, 21, 26, 62, AND 78 HAVE BEEN REMOVED DUE TO COPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIENOV78

ABSTRACT: THIS LEARNING MODULE IS DESIGNED TO INTEGRATE ENVIRONMENTAL EDUCATION INTO NINTH- AND TENTH-GRADE CHEMISTRY CLASSES. THIS MODULE AND A COMPANION SOCIAL STUDIES MODULE WERE PILOT TESTED IN GWINNETT COUNTY, GEORGIA IN 1975-76. THE MODULE IS DIVIDED INTO FOUR PARTS. PART ONE PROVIDES A BROAD OVERVIEW OF UNIT CONTENT AND PROPOSES QUESTIONS TO STIMULATE STUDENT INTEREST IN ENVIRONMENTAL PROBLEMS. PART TWO IS INTENDED TO DEVELOP AN UNDERSTANDING OF POPULATION DYNAMICS. PART THREE DEALS WITH POPULATION AND LAND USE. PART FOUR ADDRESSES THE PROBLEMS OF WASTE DISPOSAL. THE MODULE IS INTENDED TO TAKE 16 OR 17 DAYS TO COMPLETE. SOME OF THE ACTIVITIES INCLUDED ARE A POPULATION STUDY USING MICROBES, A STUDY OF SYMBIOSIS, SOIL MOISTURE AND PERCOLATION RATE, AND A SIMULATED ZONING BOARD MEETING. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003675

ERIC ACCESSION NUMBER: ED156480

PUBLICATION DATE: 77

TITLE: GROWTH: HOW MUCH IS TOO MUCH? TEACHER'S GUIDE. SCIENCE MODULE (9TH-10TH GRADE BIOLOGY).

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: COURSE CONTENT; *ECOLOGY; *ENVIRONMENTAL EDUCATION; INSTRUCTION; LAND USE; *POPULATION EDUCATION; SCIENCE EDUCATION; *SECONDARY EDUCATION; *TEACHING GUIDES; WASTE DISPOSAL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 38P.; FOR RELATED DOCUMENTS, SEE SE 024 440-447; CONTAINS LIGHT AND BROKEN TYPE IN "ROLE DESCRIPTIONS"

ISSUE: RIENOV78

ABSTRACT: THIS IS A TEACHER'S GUIDE FOR A LEARNING MODULE DESIGNED TO INTEGRATE ENVIRONMENTAL EDUCATION INTO NINTH- AND TENTH-GRADE CHEMISTRY CLASSES. THIS MODULE AND A COMPANION SOCIAL STUDIES MODULE WERE PILOT TESTED IN GWINNETT COUNTY, GEORGIA IN 1975-76. THE MODULE IS DIVIDED INTO FOUR PARTS. PART ONE PROVIDES A BROAD OVERVIEW OF UNIT CONTENT AND PROPOSES QUESTIONS TO STIMULATE STUDENT INTEREST IN ENVIRONMENTAL PROBLEMS. PART TWO IS INTENDED TO DEVELOP UNDERSTANDING OF POPULATION DYNAMICS. PART THREE DEALS WITH POPULATION AND LAND USE. PART FOUR ADDRESSES THE PROBLEMS OF WASTE DISPOSAL. THIS GUIDE INCLUDES OVERALL OBJECTIVES, THE MODULE SEQUENCE, TEACHER PREPARATION FOR CLASS ACTIVITIES, SUGGESTED SEQUENCE OF INSTRUCTION, AND SUGGESTED SHORT-ANSWER REVIEW QUIZZES. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003676

ERIC ACCESSION NUMBER: ED156481

PUBLICATION DATE: 77

TITLE: GROWTH: HOW MUCH IS TOO MUCH? STUDENT BOOK. SOCIAL STUDIES MODULE (9TH-10TH GRADE SOCIAL STUDIES). REVISED EDITION.

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: COURSE CONTENT; ECOLOGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; LAND USE; *POPULATION EDUCATION; SCIENCE EDUCATION; *SECONDARY EDUCATION; *SOCIAL SCIENCES; *WASTE DISPOSAL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 125P.; FOR RELATED DOCUMENTS, SEE SE 024 440-447; PORTIONS OF OR THE ENTIRE PAGE OF PAGES 21, 51-53, 5, 61, 74, 79, 90-91, AND 102 HAVE BEEN REMOVED DUE TO OPYRIGHT RESTRICTIONS; CONTAINS OCCASIONAL LIGHT AND BROKEN YPE

ISSUE: RIENOV78

ABSTRACT: THIS LEARNING MODULE IS DESIGNED TO INTEGRATE NVIRONMENTAL EDUCATION INTO NINTH- AND TENTH-GRADE SOCIAL TUDIES COURSES. THE MODULE AND A PARALLEL MODULE DESIGNED OR CHEMISTRY CLASSES WERE PILOT TESTED IN GWINNETT COUNTY, EORGIA IN 1975-76. THE MODULE IS DIVIDED INTO FOUR PARTS. HE FIRST PART ALERTS STUDENTS TO THE SERIOUS PROBLEMS THAT ROWTH AND DEVELOPMENT CAN BRING TO THE ENVIRONMENT AND ROVIDES AN ECOLOGICAL SETTING FOR ANALYZING ALTERNATIVE OLUTIONS. THE SECOND PART PROVIDES FACTUAL INFORMATION AND ARIOUS PERSPECTIVES ON POPULATION GROWTH AND THE WAYS IN HICH IT HAS CHANGED THE COUNTY COMMUNITY. IN THE THIRD ART, WASTE COLLECTION AND DISPOSAL AND ITS RELATIONSHIP TO AND USE PLANNING, COMMUNITY HEALTH, AND THE QUALITY OF LIFE RE ANALYZED THROUGH A SERIES OF READINGS AND ACTIVITIES. HE FOURTH PART INTRODUCES BASIC PRINCIPLES OF CAREFUL LAND SE AS A MEANS OF PREVENTING ENVIRONMENTAL DECAY. THE MODULE AKES EIGHTEEN DAYS TO COMPLETE. SOME OF THE STUDENT CTIVITIES ARE A STUDY OF THE POPULATION GROWTH OF GWINNETT OUNTY, FIELD TRIPS TO SITES OF PLANNED LAND USE, AND A IMULATION OF A ZONING BOARD MEETING. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003677

ERIC ACCESSION NUMBER: ED156482

PUBLICATION DATE: 77

TITLE: GROWTH: HOW MUCH IS TOO MUCH? TEACHER'S GUIDE. SOCIAL STUDIES MODULE (9TH-10TH GRADE SOCIAL STUDIES).

INSTITUTION CODE: IEE29175

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: COURSE CONTENT; CURRICULUM GUIDES; ECOLOGY; *ENVIRONMENTAL EDUCATION; *LAND USE; *POPULATION EDUCATION; SCIENCE EDUCATION; *SECONDARY EDUCATION; *SOCIAL SCIENCES; *TEACHING GUIDES; WASTE DISPOSAL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 52P.; FOR RELATED DOCUMENTS, SEE SE 024 440-447; PAGES 13 AND 18 REMOVED DUE TO COPYRIGHT RESTRICTIONS; CONTAINS MARGINAL LEGIBILITY IN THE ROLE DESCRIPTIONS AND MAPS SECTIONS

ISSUE: RIENOV78

ABSTRACT: THIS IS THE TEACHER'S GUIDE FOR A LEARNING MODULE DESIGNED TO INTEGRATE ENVIRONMENTAL EDUCATION INTO NINTH- AND TENTH-GRADE SOCIAL STUDIES CLASSES. THIS MODULE AND A PARALLEL MODULE DESIGNED FOR CHEMISTRY CLASSES WERE PILOT TESTED IN GWINNETT COUNTY, GEORGIA IN 1975-76. THE MODULE IS DIVIDED INTO FOUR PARTS. THE FIRST PART ALERTS STUDENTS TO THE SERIOUS PROBLEMS THAT GROWTH AND DEVELOPMENT CAN BRING TO THE ENVIRONMENT AND PROVIDES AN ECOLOGICAL SETTING FOR ANALYZING ALTERNATIVE SOLUTIONS. THE SECOND PART PROVIDES FACTUAL INFORMATION AND VARIOUS PERSPECTIVES ON POPULATION GROWTH AND THE WAYS IN WHICH IT HAS CHANGED THE COUNTY COMMUNITY. IN THE THIRD PART, WASTE COLLECTION AND DISPOSAL AND ITS RELATIONSHIP TO LAND USE PLANNING, COMMUNITY HEALTH, AND THE QUALITY OF LIFE ARE ANALYZED THROUGH A SERIES OF READINGS AND ACTIVITIES. THE FOURTH PART INTRODUCES BASIC PRINCIPLES OF CAREFUL LAND USE AS A MEANS OF PREVENTING ENVIRONMENTAL DECAY. THE TEACHER'S GUIDE GIVES OVERALL PROJECT OBJECTIVES, THE MODULE SEQUENCE AND SUPPLEMENTAL MATERIALS, AND SUGGESTED SHORT-ANSWER REVIEW QUIZZES. (BB)

BUREAU NUMBER: 522AH51215

INSTITUTION NAME: GEORGIA UNIV., ATHENS. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003679

ERIC ACCESSION NUMBER: ED161731

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: ABSTRACT.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: AIR POLLUTION CONTROL; CURRICULUM; *ENERGY; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; PESTICIDES; *POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; RADIATION; SCIENCE EDUCATION; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER RESOURCES; SOLID WASTES; *WASTEWATER TREATMENT; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 52P.; FOR RELATED DOCUMENTS, SEE SE 025 198-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THE MATERIAL PRESENTED IN THIS BOOKLET REPRESENTS A CONDENSATION OF MATERIALS DEVELOPED UNDER THE POST-SECONDARY EDUCATION PROFILE PHASE OF THE NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT. THE FINAL REPORT OF THE STUDY CONSISTED OF 16 VOLUMES WHICH ARE SUMMARIZED. THE FOLLOWING TOPICS ARE COVERED: AIR, ENERGY, NOISE, PESTICIDES, POTABLE WATER, RADIATION, SOLID WASTE, WASTEWATER, COMPOSITE, AND THE PRIVATE SECTOR. THE SAMPLE STUDY WAS DESIGNED TO PROVIDE AN OVERVIEW OF ENVIRONMENTALLY RELATED POST-SECONDARY EDUCATION PROGRAMS, THEIR PROGRAM STRUCTURE, REPRESENTATIVE COURSE OFFERINGS, EMPLOYMENT HISTORY OF GRADUATES, AND THE FACULTY STRUCTURE. INFORMATION WAS ALSO COLLECTED ON PROGRAM REQUIREMENTS AND PROGRAM PROJECTIONS. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003680

ERIC ACCESSION NUMBER: ED161732

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: AIR.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *AIR POLLUTION CONTROL; CURRICULUM; EMPLOYMENT; ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; POLLUTION; POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; *SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$19.41 PLUS POSTAGE.

DESCRIPTIVE NOTE: 374P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT PRESENTS A SUMMARY OF AIR TRAINING PROGRAMS IN JUNIOR COLLEGES, VOCATIONAL/TECHNICAL TRAINING INSTITUTES, COMMUNITY COLLEGES, FOUR YEAR COLLEGES, AND UNIVERSITIES AS WELL AS OTHER TRAINING INSTITUTIONS. IT REPRESENTS A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. FORTY-FIVE INSTITUTIONS LOCATED IN 25 STATES WERE CHOSEN FOR ON-SITE VISITS. ENROLLMENT AND GRADUATE STATISTICS ARE GIVEN, AS WELL AS STATISTICS ON NUMBERS OF FULL- AND PART-TIME FACULTY. VARIOUS CURRICULUM OPTIONS USED IN THE INSTITUTIONS ARE DISCUSSED. FINALLY, EMPLOYMENT STATISTICS ARE GIVEN. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003681

ERIC ACCESSION NUMBER: ED161733

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: COMPOSITE I (ENVIRONMENTAL ENGINEERING/HEALTH).

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: ACOUSTICS; AIR POLLUTION CONTROL; CURRICULUM; EMPLOYMENT; ENERGY; ENGINEERING; *ENVIRONMENTAL EDUCATION; GRADUATE STUDY; HEALTH EDUCATION; *HIGHER EDUCATION; *NATIONAL SURVEYS; PESTICIDES; *POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; RADIATION; *SCIENCE EDUCATION; SCIENCES; WASTE DISPOSAL; WATER RESOURCES; SOLID WASTES; WASTEWATER TREATMENT; WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$1.16 HC-$31.47 PLUS POSTAGE.

DESCRIPTIVE NOTE: 584P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT PRESENTS A SUMMARY OF A SURVEY OF EDUCATION AND TRAINING PROGRAMS IN JUNIOR COLLEGES, VOCATIONAL/TECHNICAL TRAINING INSTITUTES, COMMUNITY COLLEGES, FOUR-YEAR COLLEGES, AND UNIVERSITIES AS WELL AS OTHER TRAINING INSTITUTIONS. IT REPRESENTS A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. THE PROGRAMS PRESENTED HERE HAVE A FOCUS OR EMPHASIS ON TWO OR MORE ENVIRONMENTAL AREAS OR ARE ENVIRONMENTALLY-RELATED, BUT ARE NOT SPECIFIC TO ANY ONE AREA. THIS REPORT INCLUDES ENGINEERING/HEALTH PROGRAMS. NINTY-THREE PROGRAMS WERE SURVEYED IN 32 STATES. STATISTICS ARE GIVEN ON: (1) STATES, INSTITUTIONS, PROGRAMS, AND DEGREES; (2) ENROLLMENT, GRADUATES, AND FACULTY; (3) CURRICULA; (4) RESEARCH FUNDING AND SOURCES OF FINANCIAL SUPPORT; AND (5) EMPLOYMENT. (BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003682

ERIC ACCESSION NUMBER: ED161734

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: COMPOSITE II (EDUCATION/ECOLOGY).

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CURRICULUM; *ECOLOGY; EMPLOYMENT; ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; HEALTH EDUCATION; *HIGHER EDUCATION; *NATIONAL SURVEYS; *POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; *SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$18.07 PLUS POSTAGE.

DESCRIPTIVE NOTE: 339P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT PRESENTS A SUMMARY OF PROGRAMS IN JUNIOR COLLEGES, VOCATIONAL/TECHNICAL TRAINING INSTITUTES, COMMUNITY COLLEGES, FOUR-YEAR COLLEGES, AND UNIVERSITIES AS WELL AS OTHER TRAINING INSTITUTIONS. IT REPRESENTS A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. THE PROGRAMS PRESENTED HERE HAVE A FOCUS OR EMPHASIS ON TWO OR MORE ENVIRONMENTAL AREAS OR ARE ENVIRONMENTALLY-RELATED BUT ARE NOT SPECIFIC TO ANY ONE AREA. THE REPORT IS DIVIDED INTO ENGINEERING/HEALTH PROGRAMS AND EDUCATION/ECOLOGY PROGRAMS; 93 OF THE FIRST GROUP PROGRAMS WERE SURVEYED IN 32 STATES, AND 37 OF THE SECOND GROUP PROGRAMS WERE SURVEYED IN 17 STATES. STATISTICS ARE GIVEN ON STATES, INSTITUTIONS, PROGRAMS, AND DEGREES; ENROLLMENT, GRADUATES, AND FACULTY; CURRICULA; RESEARCH FUNDING AND SOURCES OF FINANCIAL SUPPORT; AND EMPLOYMENT. (BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003683

ERIC ACCESSION NUMBER: ED161735

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: ENERGY.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CURRICULUM; EMPLOYMENT; *ENERGY; ENERGY CONSERVATION; *ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; POSTSECONDARY EDUCATION; PROGRAM DESCRIPTIONS; *SCIENCE EDUCATION; SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$18.07 PLUS POSTAGE.

DESCRIPTIVE NOTE: 347P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT PRESENTS A SUMMARY OF ENERGY RELATED PROGRAMS IN JUNIOR COLLEGES, VOCATIONAL/TECHNICAL TRAINING INSTITUTES, COMMUNITY COLLEGES, FOUR-YEAR COLLEGES, AND UNIVERSITIES AS WELL AS OTHER TRAINING INSTITUTES. IT REPRESENTS A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. THE INFORMATION WAS LARGELY COMPILED FROM ON-SITE INTERVIEWS WITH PROFESSIONALS IN POST-SECONDARY EDUCATION THROUGHOUT THE UNITED STATES. THE REPORT INCLUDES IN EXCESS OF 40 PROGRAMS IN WHICH 95 CERTIFICATE OR DEGREE SEQUENCES ARE AVAILABLE. INFORMATION IS GIVEN ON INSTITUTIONS, DEGREES, AND PROGRAMS; ENROLLMENT AND GRADUATES; FACULTY; CURRICULA; RESEARCH FUNDING AND SOURCES OF STUDENT FINANCIAL SUPPORT; AND EMPLOYMENT. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003684

ERIC ACCESSION NUMBER: ED161736

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: NOISE.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: *ACOUSTICS; CURRICULUM; EDUCATIONAL ASSESSMENT; ENERGY; *ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; POLLUTION; *POSTSECONDARY EDUCATION; PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; *SCIENCES; SURVEYS; *NOISE POLLUTION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 207P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: NOISE-RELATED TRAINING PROGRAMS WERE REVIEWED I NINE DEGREE-GRANTING INSTITUTIONS IN SEVEN STATES. THES PROGRAMS REPRESENT A SAMPLE, ONLY, OF THE VARIOUS PROGRAM AVAILABLE NATIONWIDE. THE ENROLLMENT PROFILE AND AVERAG NUMBER OF GRADUATES BY DEGREE LEVEL FOR THE PAST THREE YEAR ARE GIVEN, AS WELL AS THE APPARENT ENROLLMENT TRENDS B DEGREE OVER THE PAST THREE YEARS. THE NOISE PROGRAMS WHIC ARE DESCRIBED IN THE PROFILE ARE SERVED BY A TOTAL OF 6 FULL-TIME AND 88 PART-TIME FACULTY. INFORMATION IS GIVEN O THE CURRICULA AND SOURCES OF RESEARCH FUNDS AND STUDEN FINANCIAL SUPPORT. A NATIONAL NOISE EMPLOYMENT PROFILE I ALSO PRESENTED. (BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOW CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003685

ERIC ACCESSION NUMBER: ED161740

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT PHASE II, POST-SECONDARY EDUCATION PROFILE: PRIVATE SECTOR.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: ACOUSTICS; AIR POLLUTION CONTROL; *CONSERVATIO EDUCATION; ENERGY; *ENVIRONMENTAL EDUCATION; HIGHE EDUCATION; *INDUSTRY; *INSERVICE EDUCATION; *NATIONA SURVEYS; PESTICIDES; *POSTSECONDARY EDUCATION; *PROFESSIONA ASSOCIATIONS; PROGRAM DESCRIPTIONS; RADIATION; SCIENC EDUCATION; VOCATIONAL EDUCATION; WASTE DISPOSAL; WATE POLLUTION CONTROL; WATER RESOURCES; WASTEWATER TREATMENT WATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$11.37 PLUS POSTAGE.

DESCRIPTIVE NOTE: 215P.; FOR RELATED DOCUMENTS, SEE SE 02 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THIS REPORT DESCRIBES 64 TRAINING PROGRAM RELATED TO POLLUTION CONTROL, ENVIRONMENTAL RESEARCH, AN CONSERVATION. THESE PROGRAMS REPRESENT A SAMPLE, ONLY, O THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. THE ORGANIZATION INCLUDED IN THE SURVEY REPRESENT A VARIETY OF BUSINESSES ANI TRADE AND PROFESSIONAL ASSOCIATIONS. THE EIGHT ENVIRONMENTA AREAS SURVEYED WERE AIR, ENERGY, NOISE, PESTICIDES, POTABL WATER, RADIATION, SOLID WASTE, AND WASTEWATER. THE COURSE DESCRIBED INCLUDE SEMINARS CONDUCTED IN-HOUSE; IN-HOUS CAMPAIGNS USING POSTERS, PAMPHLETS, AND FILMS; WORKSHOPS COMPUTER MODELLING; AUDIO VISUAL TRAINING; CORRESPONDENC COURSES; CAREER DEVELOPMENT AND MOTIVATIONAL PROGRAMS SEMINARS FOR HIGH SCHOOL STUDENTS; EMERGENCY PREPAREDNES SEMINARS; AND WORKSHOPS FOR MEMBERS IN ASSOCIATIONS INFORMATION IN THE REPORT WAS COMPILED LARGELY FRO MATERIALS RECEIVED FROM THE RESPONDING ORGANIZATIONS. (AUTHOR/BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003686

ERIC ACCESSION NUMBER: ED161741

PUBLICATION DATE: 78

TITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE II, POST-SECONDARY EDUCATION PROFILE: RADIATION.

INSTITUTION CODE: BBB15099

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: CURRICULUM; *ENGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER EDUCATION; *NATIONAL SURVEYS; NUCLEAR PHYSICS; POSTSECONDARY EDUCATION; *PROGRAM DESCRIPTIONS; *RADIATION; RADIATION BIOLOGY; SCIENCE EDUCATION; *SCIENCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$14.05 PLUS POSTAGE.

DESCRIPTIVE NOTE: 272P.; FOR RELATED DOCUMENTS, SEE SE 025 197-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEMAR79

ABSTRACT: THE SURVEY INVOLVED 25 ACADEMIC RADIATION TRAINING PROGRAMS WHICH ARE LOCATED IN 14 STATES. THESE PROGRAMS REPRESENT A SAMPLE, ONLY, OF THE VARIOUS PROGRAM AVAILABLE NATIONWIDE. ENROLLMENT AND GRADUATE STATISTICS ARE PRESENTED. A TOTAL OF 207 FACULTY MEMBERS, 72 PERCENT FULL-TIME, WERE INVOLVED IN THE PROGRAMS. CURRICULA, RESEARCH FUNDING, AND SOURCES OF STUDENT FINANCIAL SUPPORT ARE DISCUSSED. FINALLY, A NATIONAL RADIATION EMPLOYMENT PROFILE IS GIVEN. (BB)

GRANT NUMBER: EPA-T-900591

INSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA CITY, IOWA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

RIS ACCESSION NUMBER: EW003687

RIC ACCESSION NUMBER: ED161742

UBLICATION DATE: 78

ITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, HASE II, POST-SECONDARY EDUCATION PROFILE: SOLID WASTE.

NSTITUTION CODE: BBB15099

PONSORING AGENCY CODE: BBB06039

ESCRIPTOR: *CURRICULUM; EDUCATIONAL ASSESSMENT; NGINEERING; ENVIRONMENTAL EDUCATION; GRADUATE STUDY; HIGHER EDUCATION; *NATIONAL SURVEYS; POSTSECONDARY DUCATION; *PROGRAM DESCRIPTIONS; SCIENCE EDUCATION; SCIENCES; SURVEYS; *WASTE DISPOSAL; *SOLID WASTES

DRS PRICE: EDRS PRICE MF-$0.83 HC-$12.71 PLUS POSTAGE.

ESCRIPTIVE NOTE: 239P.; FOR RELATED DOCUMENTS, SEE SE 025 97-211; PHOTOGRAPHS MAY NOT REPRODUCE WELL

SSUE: RIEMAR79

BSTRACT: EDUCATIONAL PROGRAMS IN SOLID WASTE MANAGEMENT FFERED BY 16 SCHOOLS IN 9 STATES WERE SURVEYED. THESE ROGRAMS REPRESENT A SAMPLE, ONLY, OF THE VARIOUS PROGRAMS VAILABLE NATIONWIDE. ENROLLMENT AND GRADUATE STATISTICS ARE RESENTED. OVERALL, 116 FULL-TIME AND 124 PART-TIME FACULTY ERE INVOLVED IN THE PROGRAMS SURVEYED. CURRICULA AND OURCES OF RESEARCH FUNDS AND STUDENT FINANCIAL SUPPORT ARE ISCUSSED. A NATIONAL SOLID WASTE EMPLOYMENT PROFILE IS RESENTED. (BB)

RANT NUMBER: EPA-T-900591

NSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA ITY, IOWA.

PONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, ASHINGTON, D. C.

RIS ACCESSION NUMBER: EW003688

RIC ACCESSION NUMBER: ED161745

UBLICATION DATE: 78

ITLE: NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, HASE II, POST-SECONDARY EDUCATION PROFILE: SUMMARY.

NSTITUTION CODE: BBB15099

PONSORING AGENCY CODE: BBB06039

ESCRIPTOR: ACOUSTICS; AIR POLLUTION CONTROL; CURRICULUM; ENERGY; *ENVIRONMENTAL EDUCATION; GRADUATE STUDY; *HIGHER DUCATION; *NATIONAL SURVEYS; PESTICIDES; *POSTSECONDARY DUCATION; *PROGRAM DESCRIPTIONS; RADIATION; *SCIENCE DUCATION; SCIENCES; WASTE DISPOSAL; WATER RESOURCES; SOLID ASTES; WASTEWATER TREATMENT; WATER TREATMENT

DRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

ESCRIPTIVE NOTE: 123P.; FOR RELATED DOCUMENTS, SEE SE 025 97-210; PHOTOGRAPHS MAY NOT REPRODUCE WELL; CONTAINS LIGHT ND BROKEN TYPE

SSUE: RIEMAR79

BSTRACT: THIS VOLUME PRESENTS SIX- TO TEN-PAGE SUMMARIES F POST-SECONDARY ENVIRONMENTAL EDUCATION AND TRAINING ROGRAM SURVEYS. THE PROGRAMS REPRESENTED ARE A SAMPLE, NLY, OF THE VARIOUS PROGRAMS AVAILABLE NATIONWIDE. TEN ATIONAL SURVEYS WERE COMPLETED, AND THE FOLLOWING TOPICS ERE INCLUDED: AIR, ENERGY, NOISE, PESTICIDES, POTABLE ATER, RADIATION, SOLID WASTE, WASTEWATER, COMPOSITE ROGRAMS, BUSINESS AND INDUSTRY, AND TRADE AND PROFESSIONAL ROGRAMS. MOST SUMMARIES INCLUDE INFORMATION ON PROGRAMS BY TATE, ENROLLMENT DATA, FACULTY DATA, CURRICULA, EMPLOYMENT F GRADUATES AND SOURCES OF FUNDING AND STUDENT FINANCIAL UPPORT. (BB)

RANT NUMBER: EPA-T-900591

NSTITUTION NAME: NATIONAL FIELD RESEARCH CENTER INC., IOWA ITY, IOWA.

PONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, ASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003689

UBLICATION DATE: APR 78

ITLE: IRRIGATED AGRICULTURE AND WATER QUALITY MANAGEMENT.

ESCRIPTOR: *AGRICULTURAL PRODUCTION; ECONOMICS; ENVIRONMENTAL INFLUENCES; *FARM MANAGEMENT; NATURAL ESOURCES; POLLUTION; PLANT GROWTH; RESEARCH; *TECHNOLOGY; WATER POLLUTION CONTROL; *WATER QUALITY; APPROPRIATIVE IGHTS; *IRRIGATION

ESCRIPTIVE NOTE: 32P.

BSTRACT: THIS PAMPHLET DISCUSSES THE CURRENT TECHNOLOGIES HICH CAN BE UTILIZED TO ALLEVIATE WATER QUALITY PROBLEMS IN RRIGATED AGRICULTURE. EMPHASIS IS GIVEN TO IMPROVING WATER ANAGEMENT PRACTICES TO PROVIDE CLEANER WATER, INCREASE CROP RODUCTION, AND MEET NEW WATER DEMANDS. (CS)

VAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003690

PUBLICATION DATE: OCT 77

TITLE: ALTERNATIVES FOR SMALL WASTEWATER TREATMENT SYSTEMS: ONSITE DISPOSAL; SEPTAGE TREATMENT AND DISPOSAL.

DESCRIPTOR: ECONOMICS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LAND USE; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; SOIL SCIENCE; *TECHNOLOGY; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ONSITE DISPOSAL (WASTEWATER)

DESCRIPTIVE NOTE: 90P.

ABSTRACT: THIS PUBLICATION IS ONE IN A SERIES OF SEMINAR MATERIALS PRESENTING ALTERNATIVES FOR SEPTAGE DISPOSAL. METHOD SELECTIONS DISCUSSED INCLUDE EVALUATION OF LOCAL NEEDS, COST EFFECTIVENESS OF SOLUTIONS, AND ENVIRONMENTAL IMPACT FACTORS. THIS VOLUME CONCENTRATES ON SEPTAGE TREATMENT AND DISPOSAL AND ON-SITE DISPOSAL OF SMALL WASTEWATER FLOWS. EACH CHAPTER CONTAINS EXTENSIVE REFERENCES. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003691

PUBLICATION DATE: OCT 77

TITLE: ALTERNATIVES FOR SMALL WASTEWATER TREATMENT SYSTEMS: PRESSURE SEWERS; VACUUM SEWERS.

DESCRIPTOR: COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; MUNICIPALITIES; POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; *TECHNOLOGY; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ALTERNATIVE TECHNOLOGY; *SEWERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 97P.

ABSTRACT: THIS PUBLICATION IS ONE IN A SERIES OF SEMINAR MATERIALS PRESENTING ALTERNATIVES FOR SEPTAGE DISPOSAL. THIS VOLUME CONCENTRATES ON THE DESCRIPTION, DESIGN, OPERATION AND COST OF PRESSURE SEWERS, VACUUM SEWERS, VACUUM SEWAGE FLOW CHARACTERISTICS, AND DESIGN EXAMPLES. EACH CHAPTER CONTAINS EXTENSIVE REFERENCES. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003692

PUBLICATION DATE: OCT 77

TITLE: ALTERNATIVES FOR SMALL WASTEWATER TREATMENT SYSTEMS: COST EFFECTIVENESS ANALYSIS.

DESCRIPTOR: *CASE STUDIES; *COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *MUNICIPALITIES; POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; TECHNOLOGY; UTILITIES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; ALTERNATIVE TECHNOLOGY; *SEPTIC TANKS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 30P.

ABSTRACT: THIS PUBLICATION IS ONE IN A SERIES OF SEMINAR MATERIALS PRESENTING ALTERNATIVES FOR SEPTAGE DISPOSAL. THE TEXT INCLUDES SECTIONS DESCRIBING THE PROBLEM CONDITIONS TO BE CONSIDERED IN SELECTING ALTERNATIVES INCLUDING ADVANTAGES, DISADVANTAGES, AND LIMITATIONS OF ALTERNATIVES; A PROCEDURE FOR SCREENING AND AMALYZING COSTS; AND A SET OF CASE HISTORIES. EACH SECTION CONTAINS APPROPRIATE REFERENCES. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003693

PUBLICATION DATE: 77

TITLE: SWIRL DEVICE FOR REGULATING AND TREATING COMBINED SEWER OVERFLOWS.

DESCRIPTOR: COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; *EQUIPMENT; *HYDRAULICS; MUNICIPALITIES; POLLUTION; RESEARCH; *SEWERS; *TECHNOLOGY; TECHNICAL REPORTS; *WASTE DISPOSAL; *WASTEWATER COLLECTION; *WATER POLLUTION CONTROL; *NEW YORK

DESCRIPTIVE NOTE: 24P.

ABSTRACT: THIS CAPSULE REPORT DESCRIBES THE RESULTS OF A FULL-SCALE PHOTOTYPE SWIRL UNIT USED TO CONTROL COMBINED SEWER OVERFLOWS IN THE CITY OF SYRACUSE, NEW YORK. DISCUSSIONS INCLUDE A DESCRIPTION OF THE PROCESS, THE PERFORMANCE, ECONOMICS, AND ADDITIONAL AREAS OF APPLICATION INCLUDING USE AS A GRIT SEPARATOR, A PRIMARY SEPARATOR, AND AN EROSION CONTROL DEVICE. PHOTOGRAPHS, DIAGRAMS, AND TABLES SUPPLEMENT THE TEXT. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003695

PUBLICATION DATE: 78

TITLE: GROUND WATER: RESOURCES OF GEORGIA.

PERSONAL AUTHOR: KUNDELL, JAMES E.

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; GEOLOGY; *LEGISLATION; *NATURAL RESOURCES; POLLUTION; *TECHNICAL REPORTS; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES; *GEORGIA; *GROUNDWATER

DESCRIPTIVE NOTE: 139P.

ABSTRACT: THIS REPORT PROVIDES BASIC INFORMATION ON THE GROUNDWATER RESOURCES OF GEORGIA AND DISCUSSES THE PROBLEMS AND POTENTIALS OF THIS NATURAL RESOURCE. CHAPTER TOPICS INCLUDE: (1) GROUNDWATER RESOURCES; (2) PROBLEMS; AND (3) GROUNDWATER REGULATIONS IN GEORGIA. THE APPENDIX CONTAINS THE IMPORTANT SECTIONS FROM ALL GEORGIA LAWS WHICH IMPACT ON GROUNDWATER. (CS)

AVAILABILITY: PUBLICATIONS PROGRAM, INSTITUTE OF GOVERNMENT, UNIVERSITY OF GEORGIA, TERRELL HALL, GEORGIA 30602 ($6.00)

IRIS ACCESSION NUMBER: EW003696

PUBLICATION DATE: JUL 74

TITLE: PROTECTION OF SHELLFISH WATERS (MCD-06).

DESCRIPTOR: ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *OCEANOLOGY; POST SECONDARY EDUCATION; SEAFOOD; *WASTEWATER EFFLUENTS; WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER STANDARDS; *SHELLFISH; *EFFLUENTS

DESCRIPTIVE NOTE: 22P. ORDER NO. PB 257 790

ABSTRACT: PRESENTED ARE REQUIREMENTS FOR PROTECTION OF SHELLFISH WATERS RECEIVING EFFLUENT DISCHARGED FROM MUNICIPAL WASTEWATER TREATMENT WORKS PROPOSED FOR AN EPA CONSTRUCTION GRANT. REQUIREMENTS ARE PRESENTED FOR DETERMINING IF THE PROPOSED PROJECT COULD AFFECT SHELLFISH WATER, FOR ASSESSING THE IMPACT OF THE PROPOSED PROJECT ON THE SHELLFISH WATERS, FOR ESTIMATING THE SIZE OF A CLOSED SAFETY ZONE AROUND THE OUTFALL SITE, AND DESIGNING THE WASTEWATER TREATMENT WORKS. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 (NO PRICE QUOTED)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAM OPERATIONS.

IRIS ACCESSION NUMBER: EW003697

PUBLICATION DATE: 74

TITLE: DESIGN CRITERIA FOR MECHANICAL, ELECTRIC, AND FLUID SYSTEM AND COMPONENT RELIABILITY (MCD-05).

DESCRIPTOR: *DESIGN; *FACILITIES; *INSTRUMENTATION; SLUDGE; *WASTES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 54P.

ABSTRACT: THIS PUBLICATION PROVIDES RELIABILITY DESIGN CRITERIA FOR WASTEWATER TREATMENT WORKS PROJECTS SEEKING FEDERAL FINANCIAL ASSISTANCE. THE DESIGN CRITERIA FALL UNDER TWO MAIN CATEGORIES: WORKS DESIGN CRITERIA, AND SYSTEMS DESIGN CRITERIA. INCLUDED IN THE SECOND CATEGORY ARE DESIGN CRITERIA FOR WASTEWATER TREATMENT SYSTEMS, SLUDGE HANDLING AND DISPOSAL SYSTEMS, ELECTRIC POWER SYSTEMS, INSTRUMENTATION AND CONTROL SYSTEMS, AND AUXILIARY SYSTEMS. (BB)

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8FFS), CENTRALIZED MAILING LISTS SERVICES, BLDG. 41, DENVER, CO 80225 (FREE)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAM OPERATIONS.

IRIS ACCESSION NUMBER: EW003698

PUBLICATION DATE: NOV 75

TITLE: COST-EFFECTIVE COMPARISON OF LAND APPLICATION AND ADVANCED WASTEWATER TREATMENT: TECHNICAL REPORT (MCD-17)

PERSONAL AUTHOR: POUND, CHARLES E.; AND OTHERS

DESCRIPTOR: *COMPARATIVE ANALYSIS; *COST EFFECTIVENESS; *ECONOMICS; GUIDES; *LAND APPLICATION; OPERATIONS (WASTEWATER); SECONDARY TREATMENT; *TECHNICAL REPORTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 33P. ORDER NO. PB 257 448

ABSTRACT: THIS REPORT ILLUSTRATES THE SENSITIVITY OF LAND APPLICATION SYSTEM COSTS TO VARIATIONS IN MAJOR DESIGN FACTORS AND COMPARES THESE COSTS WITH THOSE FOR CONVENTIONAL ADVANCED WASTEWATER TREATMENT SYSTEMS. FOUR FIGURES SHOWING COST CURVES HAVE BEEN PRODUCED AND SOME MAJOR IMPLICATIONS FROM THE ANALYSIS OF THESE CURVES ARE LISTED. TWO EXAMPLES ARE PRESENTED TO ILLUSTRATE THE POTENTIAL USE OF THE CURVES AND TABLES. TWO OTHER COMPARISONS ARE MADE IN ADDITION TO VARIATIONS IN DESIGN FACTORS. THESE ARE COMPARISONS OF LAND PRICE, AND THE EFFECT OF FEDERAL GRANTS. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

IRIS ACCESSION NUMBER: EW003699

PUBLICATION DATE: MAR 78

TITLE: ENERGY CONSERVATION IN MUNICIPAL WASTEWATE TREATMENT. TECHNICAL REPORT (MCD-32).

PERSONAL AUTHOR: WESNER, GEORGE M.; AND OTHERS

DESCRIPTOR: ENERGY; *ENERGY CONSERVATION; GUIDES *OPERATIONS (WASTEWATER); *STANDARDS; *TECHNICAL REPORTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 300P.

ABSTRACT: THIS TECHNICAL REPORT PROVIDES INFORMATION FO PRIMARY AND SOME SECONDARY ENERGY USE AND PRIMARY ENERG CONSERVATION IN THE EPA MUNICIPAL WASTEWATER TREATMEN CONSTRUCTION GRANTS PROGRAM. PRIMARY ENERGY IS THE ENERG USED IN THE OPERATION OF A FACILITY, SUCH AS THE ELECTRICIT USED IN THE VARIOUS PROCESSES AND SPACE HEATING. SECONDAR ENERGY IS DEFINED AS THE ENERGY REQUIRED TO MANUFACTUR CHEMICALS AND OTHER CONSUMABLE MATERIALS USED IN MUNICIPA WASTEWATER TREATMENT. IN ADDITION TO IDENTIFYING ENERG UTILIZATION AND CONSERVATION FOR A WIDE RANGE OF TREATMEN ALTERNATIVES AVAILABLE TO MEET THE STANDARDS, THE REPOR AIDS IN SCREENING ALTERNATIVES FOR THEIR ENERGY REDUCTIO POTENTIAL. SOME OF THE TOPICS COVERED ARE IN-PLANT ENERG RECOVERY AND RECYCLING, INCINERATION, PYROLYSIS, HEAT PUMPS NATIONAL AND REGIONAL COST PROJECTIONS, ENERGY EFFECTIVENES AND COST EFFECTIVENESS, AND ENERGY IMPLICATIONS OF SEPARAT AND COMBINED SEWERS AND INFILTRATION/INFLOW. IN ADDITION THE ENERGY REQUIREMENTS OF FOURTEEN DIFFERENT TREATMEN ALTERNATIVES ARE GIVEN. (BB)

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8FFS) CENTRALIZED MAILING LISTS SERVICES, BLDG. 41, DENVER FEDERAI CENTER, DENVER, CO 80225 (FREE)

IRIS ACCESSION NUMBER: EW003700

PUBLICATION DATE: MAR 78

TITLE: ENVIRONMENTAL CHANGES FROM LONG-TERM LANC APPLICATIONS OF MUNICIPAL EFFLUENTS. TECHNICAL REPORT (MCD-26).

PERSONAL AUTHOR: HINESLY, T. D.; AND OTHERS

DESCRIPTOR: AGRICULTURE; BIOLOGY; *CHEMICAL ANALYSIS; *ENVIRONMENT; *LAND APPLICATION; *RESEARCH; SOII APPLICATION; TECHNICAL REPORTS; *WASTE DISPOSAL; *WASTEWATEI EFFLUENTS; WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 39P. ORDER NO. PB 284 857

ABSTRACT: THIS REPORT CONTAINS THE RESULTS OF VARIOUS CHEMICAL ANALYSES PERFORMED ON SOIL AND PLANT SAMPLES COLLECTED FROM SEWAGE EFFLUENT DISPOSAL SITES DURING MARCH 1975 AT BAKERSFIELD, CALIFORNIA, AND AT LUBBOCK, TEXAS IN JUNE 1976. AT BOTH SITES APPROXIMATELY 16 MGD OF EFFLUENT IS APPLIED DAILY THROUGHOUT THE YEAR ON LAND USED FOR THE PRODUCTION OF ROW AND FORAGE CROPS. PARTS OF BOTH FARMS HAVE BEEN ANNUALLY IRRIGATED WITH SEWAGE EFFLUENT FOR MORE THAN 35 YEARS. EXCEPT FOR CHANGES IN PHOSPHORUS CONCENTRATIONS, SOIL CHEMICAL PROPERTIES WERE NOT MARKEDLY AFFECTED BY SEWAGE EFFLUENT IRRIGATIONS. LONG-TERM IRRIGATIONS WITH SEWAGE EFFLUENT HAVE CAUSED VERY LITTLE CHANGES IN THE CHEMICAL COMPOSITION OF PLANTS GROWN ON THE DISPOSAL SITES. FROM THE LIMITED DATA, IT APPEARS THAT LONG-TERM DISPOSAL OF SEWAGE EFFLUENT ON FARM LAND MAY HAVE CAUSED UNACCEPTABLE CONCENTRATIONS OF NITRATES IN GROUNDWATERS. THIS PROBLEM COULD BE EASILY CORRECTED AT BOTH SITES BY STORING EFFLUENT DURING WINTER MONTHS. WITH ADEQUATE STORAGE FACILITIES, EFFLUENT APPLICATIONS COULD BE REGULATED SO THAT NITROGEN INPUTS WERE IN BALANCE WITH NITROGEN UPTAKE BY CROP PLANTS. IF THEY WERE MANAGED TO REMOVE NITROGEN, SOILS AT BOTH SITES HAVE POTENTIAL CAPACITIES FOR REMOVING CONTAMINANTS FROM WASTEWATERS FOR MANY MORE YEARS. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.50)

INSTITUTION NAME: U.S. EPA, MUNICIPAL CONSTRUCTION DIVISION.

IRIS ACCESSION NUMBER: EW003701

PUBLICATION DATE: DEC 75

TITLE: HANDBOOK FOR SEWER SYSTEM EVALUATION AND REHABILITATION (MCD-19).

DESCRIPTOR: ECONOMICS; *EVALUATION; GUIDES; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SEWERS; *SURVEYS; WASTE DISPOSAL; *WASTEWATER COLLECTION; *WASTEWATEI TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 232P. ORDER NO. PB 257 457

ABSTRACT: GUIDANCE HAS BEEN PROVIDED TO ASSIST IN THE PREPARATION AND REVIEW OF INFILTRATION/INFLOW ANALYSIS ANC SEWER REHABILITATION AND THE COSTS RELATED TO EVALUATION SURVEYS AND REHABILITATION. THE HANDBOOK CONTAINS CHAPTERS ON: (1) METHODOLOGY FOR CONDUCTING I/I ANALYSIS; (2) METHODOLOGY FOR CONDUCTING SEWER SYSTEM EVALUATION SURVEYS; (3) INFORMATION ON CURRENT STATE-OF-THE-ART TECHNIQUES FOR SEWER REHABILITATION; AND (4) COSTS ASSOCIATED WITH CONDUCTING SEWER SYSTEM EVALUATION SURVEYS AND REHABILITATION. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.50)

INSTITUTION NAME: U.S. EPA, MUNICIPAL CONSTRUCTION DIVISION.

IRIS ACCESSION NUMBER: EW003702

PUBLICATION DATE: MAY 78

TITLE: ANALYSIS OF OPERATIONS AND MAINTENANCE COSTS FOR

MUNICIPAL WASTEWATER TREATMENT SYSTEMS: TECHNICAL REPORT (MCD-39).

DESCRIPTOR: *ECONOMICS; *FACILITIES; OPERATIONS (WASTEWATER); *STATISTICAL ANALYSIS; *SURVEYS; TECHNICAL REPORTS; *WASTEWATER COLLECTION; WASTEWATER DISTRICTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 282P. ORDER NO. PB 283 471

ABSTRACT: THIS REPORT PRESENTS THE RESULTS AND ANALYSIS OF A SURVEY MADE ON THE OPERATION AND MAINTENANCE COSTS OF MUNICIPAL WASTEWATER TREATMENT PLANTS AND COLLECTION SYSTEMS. THE RESULTS HAVE BEEN DERIVED FROM PLANT OPERATING RECORDS ACROSS THE CONTINENTAL UNITED STATES. COSTS ARE PRESENTED FOR DIFFERENT LEVELS OF WASTEWATER TREATMENT, TYPES OF PLANTS AND COLLECTION SYSTEMS, AND SEGREGATED COST CATEGORIES. A NUMBER OF ANALYSES ARE ALSO PRESENTED AS RELATIVE COSTS FOR CERTAIN TREATMENT VARIABLES AND CHARACTERISTICS. THE COST DATA UTILIZED IN THE STUDY RANGE FROM FOURTH QUARTER 1972 TO FIRST QUARTER 1977. ALL COSTS HAVE BEEN ADJUSTED TO THIRD QUARTER 1977 DOLLARS. ONLY TREATMENT PLANTS OF ONE MILLION GALLONS PER DAY (MGD) CAPACITY OR LARGER WERE SAMPLED IN THIS SURVEY. THE REPORT IS INTENDED TO BE OF VALUE TO FUNDING AGENCIES, TO MUNICIPAL ADMINISTRATORS AND ELECTED OFFICIALS, AND TO THE ENGINEERING COMMUNITY WHEN PLANNING THE CONSTRUCTION OF NEW FACILITIES, AS WELL AS IN COMPARING COSTS OF A FACILITY WITH OTHERS IN THE GEOGRAPHIC AREA OR IN THE NATION. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($11.00)

INSTITUTION NAME: DAMES AND MOORE, WATER POLLUTION CONTROL ENGINEERING SERVICES, DENVER.

IRIS ACCESSION NUMBER: EW003703

PUBLICATION DATE: APR 77

TITLE: SLUDGE HANDLING AND DISPOSAL PRACTICES AT SELECTED MUNICIPAL WASTEWATER TREATMENT PLANTS (MCD-36).

DESCRIPTOR: *COST EFFECTIVENESS; EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SANITATION; *SLUDGE; TECHNICAL REPORTS; WASTE DISPOSAL; *WASTEWATER SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 56P. ORDER NO. PB 272 048

ABSTRACT: THIS REPORT DESCRIBES THE SLUDGE HANDLING PRACTICES EMPLOYED BY 46 MEMBERS OF THE ASSOCIATION OF METROPOLITAN SEWERAGE AGENCIES (AMSA). DEWATERING AND DISPOSAL METHODS ARE EVALUATED WITH RESPECT TO THE PREVALENCE OF VARIOUS TYPES OF EQUIPMENT AND SYSTEMS, SLUDGE HANDLING COSTS, AND OTHER FACTORS. RESEARCH NEEDS AND NONTECHNICAL ASPECTS OF SLUDGE MANAGEMENT ARE DISCUSSED. COMPOSITE FLOW CHARTS ARE PRESENTED TO ILLUSTRATE HOW THE DIFFERENT PLANTS PROCESS SEWAGE SLUDGE. CHARTS ARE INCLUDED FOR PRIMARY, SECONDARY, AND COMBINED SLUDGES. THE QUANTITIES OF SLUDGE HANDLED BY EACH UNIT OPERATION AND THE NUMBER OF PLANTS USING THE PROCESS ARE SHOWN. THE MOST COMMONLY USED TYPES OF EQUIPMENT IN DECREASING ORDER OF FREQUENCY, ARE ANAEROBIC DIGESTION, GRAVITY THICKENING, AND VACUUM FILTRATION. DATA ON SPECIFIC TYPES OF EQUIPMENT WERE CORRELATED WITH THE TYPE OF SLUDGE PROCESSED, PLANT SIZE, AND OTHER PARAMETERS. DATA ON SLUDGE HANDLING COSTS WERE ANALYZED. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

INSTITUTION NAME: SVERDRUP & PARCEL AND ASSOC., INC.

IRIS ACCESSION NUMBER: EW003704

PUBLICATION DATE: MAY 78

TITLE: CONSTRUCTION COSTS FOR MUNICIPAL WASTEWATER CONVEYANCE SYSTEMS, 1973-1977. TECHNICAL REPORT (MCD-38).

DESCRIPTOR: *CONSTRUCTION COSTS; *ECONOMICS; *FACILITIES; *MUNICIPAL WASTES; PUMP STATIONS; *STATISTICAL ANALYSIS; TABLES (STATISTICAL); *TECHNICAL REPORTS; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 193P. ORDER NO. PB 283 479

ABSTRACT: CONSTRUCTION BID DATA ARE PRESENTED HERE FOR 455 WASTEWATER CONVEYANCE SYSTEMS CONSTRUCTION PROJECTS. THE INFORMATION WAS OBTAINED FROM EACH OF THE TEN EPA REGIONAL OFFICES. THE PROJECTS SAMPLED INCLUDE NEW AND ENLARGED WASTEWATER CONVEYANCE FACILITIES. COSTS FOR BOTH COLLECTION AND INTERCEPTOR PROJECTS WERE INCLUDED ALONG WITH THE COSTS OF ASSOCIATED PUMP STATIONS AND FORCE MAINS. COSTS ARE PRESENTED UNDER THE FOLLOWING HEADINGS: (1) GRAVITY SANITARY SEWER; (2) NON-PIPE AND APPURTENANCE COSTS; (3) NONCONSTRUCTION COSTS; (4) FORCE MAIN COSTS; (5) PUMPING STATION COSTS; (6) MATERIAL AND LABOR COSTS; AND (7) TYPICAL SMALL COMMUNITY COSTS. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.00)

INSTITUTION NAME: DAMES AND MOORE, WATER POLLUTION CONTROL ENGINEERING SERVICES.

IRIS ACCESSION NUMBER: EW003705

PUBLICATION DATE: JAN 78

TITLE: CONSTRUCTION COSTS FOR MUNICIPAL WASTEWATER TREATMENT PLANTS, 1973-1977: TECHNICAL REPORT (MCD-37).

DESCRIPTOR: *CONSTRUCTION COSTS; *ECONOMICS; ENVIRONMENT; *FACILITIES; *MUNICIPAL WASTES; *OPERATIONS (WASTEWATER); TABLES (STATISTICAL); TECHNICAL REPORTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 214P. ORDER NO. PB 282 436

ABSTRACT: CONSTRUCTION BID DATA ARE PRESENTED FOR 536 TREATMENT PLANT CONSTRUCTION PROJECTS. THE INFORMATION WAS OBTAINED FROM EACH OF THE TEN EPA REGIONAL OFFICES. ALL FACILITIES SAMPLED ARE MUNICIPALLY OWNED TREATMENT PLANTS FUNDED AFTER 1973 UNDER PUBLIC LAW 92-500. THE PROJECTS SAMPLED INCLUDE NEW, ENLARGED, AND UPGRADED FACILITIES. STABILIZATION POND AND AERATED LAGOON COST INFORMATION WAS INCLUDED ALONG WITH THAT FOR MECHANICAL PLANTS. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.25)

INSTITUTION NAME: DAMES AND MOORE, WATER POLLUTION CONTROL ENGINEERING SERVICES, DENVER.

IRIS ACCESSION NUMBER: EW003706

PUBLICATION DATE: JUN 78

TITLE: UPGRADING TRICKLING FILTERS. TECHNICAL REPORT (MCD-42).

PERSONAL AUTHOR: PIERCE, DONALD M.

DESCRIPTOR: COST EFFECTIVENESS; ENERGY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *TECHNICAL REPORTS; *TRICKLING FILTERS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 139P. ORDER NO. PB 286 920

ABSTRACT: TRICKLING FILTERS OFFER ADVANTAGES OF LOWER ENERGY NEEDS AND RELATIVE EASE OF OPERATION AND, OFTEN IN COMBINATION WITH OTHER TREATMENT TECHNIQUES, SHOULD BE CONSIDERED FOR NEW FACILITIES AS WELL AS FOR CONTINUED USE IN PLANTS WHERE THEY PRESENTLY EXIST. THIS REPORT PRESENTS THE RESULTS FROM OPERATION, PLANT VISITATION, AND DISCUSSIONS WITH OPERATING STAFFS OF 104 TRICKLING FILTER PLANTS. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($7.25)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAM OPERATIONS, MUNICIPAL CONSTRUCTION DIVISION.

IRIS ACCESSION NUMBER: EW003707

PUBLICATION DATE: OCT 77

TITLE: MUNICIPAL SLUDGE MANAGEMENT: ENVIRONMENTAL FACTORS. TECHNICAL BULLETIN (MCD-28).

DESCRIPTOR: AGRICULTURE; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *LAND APPLICATION; *MUNICIPAL WASTES; POST SECONDARY EDUCATION; *SLUDGE; TECHNICAL REPORTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 152P. ORDER NO. PB 277 622

ABSTRACT: THIS BULLETIN PRESENTS A DESCRIPTION OF ITEMS TO CONSIDER WHEN SELECTING A SPECIFIC SLUDGE UTILIZATION AS DISPOSAL ALTERNATIVE. THESE INCLUDE FACTORS TO BE CONSIDERED IN THE ENVIRONMENTAL ASSESSMENT AND TO BE USED IN REVIEWING THE FACTS OF A PARTICULAR SITUATION. GENERAL REQUIREMENTS FOR LAND APPLICATION OF SLUDGE ARE PRESENTED ALONG WITH ADDITIONAL REQUIREMENTS FOR SLUDGE APPLICATION TO AGRICULTURAL LANDS. IN ADDITION, SLUDGE DISPOSAL METHODS SUCH AS SANITARY LANDFILLS, INCINERATION, AND OCEAN DISPOSAL ARE ALSO COVERED. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($8.00)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAM OPERATIONS.

IRIS ACCESSION NUMBER: EW003708

PUBLICATION DATE: SEP 75

TITLE: WASTEWATER SLUDGE UTILIZATION AND DISPOSAL COSTS (MCD-12).

PERSONAL AUTHOR: SHEA, TIMOTHY G.; STOCKTON, JOHN D.

DESCRIPTOR: *COST EFFECTIVENESS; LAND APPLICATION; *LAND USE; MUNICIPALITIES; POLLUTION; RECYCLING; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 13P.

ABSTRACT: THIS REPORT PRESENTS A SERIES OF COST RELATIONSHIPS FOR SLUDGE DISPOSAL ALTERNATIVES AND DESCRIBES THE PROCESS AND TYPE OF INFORMATION USED IN CREATING THE COST RELATIONSHIPS. (CS)

AVAILABILITY: GENERAL SERVICES ADMINISTRATION (8FFS), CENTRALIZED MAILING LISTS SERVICES, BLDG. 41, DENVER FEDERAL CENTER, DENVER, CO 80225 (FREE)

IRIS ACCESSION NUMBER: EW003709

PUBLICATION DATE: JUL 76

TITLE: VALUE ENGINEERING WORKBOOK FOR CONSTRUCTION GRANT PROJECTS (MCD-29).

DESCRIPTOR: *CONSTRUCTION; COST EFFECTIVENESS; DESIGN; *ENGINEERING; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATION ANALYSIS; POLLUTION; POST SECONDARY EDUCATION; *VALUE ENGINEERING; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 70P. ORDER NO. PB 258 040

ABSTRACT: THIS WORKBOOK DESCRIBES PROCEDURES FOR APPLYING VALUE ENGINEERING (VE) TECHNIQUES TO WASTEWATER TREATMENT PROJECTS. THE *RELATIONSHIP* BETWEEN VE ANALYSES AND THE EPA CONSTRUCTION GRANT PROGRAM ARE DESCRIBED. INFORMATION ON ORGANIZING A VE STUDY PLAN AND SELECTING A TEAM COORDINATOR

IS PRESENTED. TYPICAL IDEAS AND RESULTS FOR WASTEWATER PROJECTS ARE INCLUDED. (AUTHOR/CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

INSTITUTION NAME: U.S. EPA, MUNICIPAL CONSTRUCTION DIVISION.

IRIS ACCESSION NUMBER: EW003710

PUBLICATION DATE: MAR 74

TITLE: SUPPLEMENT TO FEDERAL GUIDELINES: DESIGN, OPERATION, AND MAINTENANCE OF WASTEWATER TREATMENT FACILITIES. WASTEWATER TREATMENT PONDS (MCD-14).

DESCRIPTOR: ADMINISTRATIVE POLICY; *DESIGN; ENGINEERING; *FACILITIES; *LAGOONS; *LAND USE; MUNICIPALITIES; *OPERATIONS (WASTEWATER); POLLUTION; PUBLIC HEALTH; *TECHNICAL REPORTS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 18P. ORDER NO. PB 259 859

ABSTRACT: THIS BULLETIN PRESENTS TECHNICAL INFORMATION WHICH CAN BE UTILIZED BY COMMUNITIES TO EVALUATE THE DESIGN AND OPERATION OF WASTEWATER TREATMENT LAGOONS. UPGRADING METHODS WHICH RETAIN THE ADVANTAGES OF SIMPLICITY AND LOW COST WHICH LAGOONS OFFER ARE STRESSED. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.00)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAM OPERATIONS, MUNICIPAL CONSTRUCTION DIVISION.

IRIS ACCESSION NUMBER: EW003712

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL POLLUTION CONTROL ALTERNATIVES: MUNICIPAL WASTEWATER.

PERSONAL AUTHOR: CULP, GORDON

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LAND USE; POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; RECYCLING; SANITATION; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

ABSTRACT: THE COMPOSITION, TREATMENT AND DISPOSAL OF WASTEWATER ARE THE CONCERN OF THIS PAMPHLET. THE TEXT DISCUSSES THE ORIGIN OF BOTH ORGANIC AND INORGANIC COMPONENTS OF WASTEWATER. FOLLOWING THIS, A DESCRIPTION OF THE ALTERNATIVES FOR WASTEWATER TREATMENT AND SLUDGE HANDLING ARE COVERED IN DETAIL. NUMEROUS PHOTOGRAPHS AND SKETCHES AUGMENT THE TEXT. A SUMMARY OF AVAILABLE ALTERNATIVES RELATIVE TO REQUIREMENTS FOR POLLUTANT REMOVAL IS INCLUDED FOR BOD, DISINFECTION, COD, SUSPENDED SOLIDS, NITROGEN AND PHOSPHORUS, AND SLUDGE. (CS)

AVAILABILITY: U.S. EPA, ENVIRONMENTAL REAEARCH INFORMATION CENTER, TECHNOLOGY TRANSFER, CINCINNATI, OH 45268 (FREE)

INSTITUTION NAME: U.S. EPA, TECHNOLOGY TRANSFER.

IRIS ACCESSION NUMBER: EW003713

PUBLICATION DATE: 78

TITLE: POLLUTANTS AND HIGH RISK GROUPS.

PERSONAL AUTHOR: CALABRESE, EDWARD J.

DESCRIPTOR: AIR POLLUTION; *ENVIRONMENTAL INFLUENCES; ENVIRONMENTAL RESEARCH; GENETICS; *INSTRUCTIONAL MATERIALS; NUTRITION; *OCCUPATIONAL DISEASES; PESTICIDES; *POLLUTION; *PUBLIC HEALTH; *TOXICITY

DESCRIPTIVE NOTE: 266P.

ABSTRACT: THIS BOOK PRESENTS A SYNTHESIS OF BIOMEDICAL LITERATURE IN WHICH THE NUMEROUS HYPERSUSCEPTIBLE SEGMENTS OF THE POPULATION WITH RESPECT TO POLLUTANT TOXICITY HAVE BEEN IDENTIFIED. BIOLOGICAL FACTORS SUCH AS CERTAIN DEVELOPMENTAL PROCESSES, GENETIC DISORDERS, NUTRITIONAL DEFICIENCIES, DISEASE PROCESSES, AND BEHAVIORAL FACTORS WHICH PREDISPOSE INDIVIDUALS TO THE TOXIC EFFECTS OF POLLUTANTS ARE DISCUSSED IN DETAIL. THE FINAL CHAPTERS INTERPRET THE ROLE OF HIGH-RISK GROUPS IN THE DEVELOPMENT OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH POLICIES. A GLOSSARY AND BIBLIOGRAPHY ARE INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DR., SOMERSET, N.J. 08873 ($19.50)

IRIS ACCESSION NUMBER: EW003715

PUBLICATION DATE: 07-08-77

TITLE: ENVIRONMENTAL PROTECTION ISSUES FACING THE NATION.

DESCRIPTOR: DISPOSAL; *ECONOMICS; *ENVIRONMENT; *LAWS; PESTICIDES; *POLLUTION; POLLUTANTS (INDUSTRIAL); RADIOACTIVITY; WASTEWATER DISPOSAL; WATER POLLUTION CONTROL; *AIR POLLUTION CONTROL; *NOISE POLLUTION

DESCRIPTIVE NOTE: 66P. ORDER NO. PB 269 748

ABSTRACT: THIS STUDY BY THE STAFF OF THE U.S. GENERAL ACCOUNTING OFFICE DESCRIBES AND IDENTIFIES THE MAJOR ENVIRONMENTAL ISSUES FACING THE CONGRESS AND THE NATION. INCLUDED ARE CHAPTERS ON DEVELOPING EFFECTIVE ENVIRONMENTAL PROTECTION STRATEGIES (AIR, WATER, NOISE, AND RADIATION); MANAGING FEDERAL ENVIRONMENTAL PROGRAM CONTRACTS, LOANS, AND GRANTS EFFECTIVELY; MINIMIZING ENVIRONMENTAL PROTECTION PROGRAM'S ECONOMIC IMPACT ON THE PUBLIC AND PRIVATE SECTORS; ASSURING EFFECTIVE INSTITUTIONAL ARRANGEMENTS TO IMPLEMENT ENVIRONMENTAL LAWS AND TO CONSIDER TRADE-OFFS; PROTECTING HUMANS AND THE ENVIRONMENT FROM HARMFUL PESTICIDES AND TOXIC SUBSTANCES; PROTECTING HEALTH AND THE ENVIRONMENT FROM THE EFFECTS OF IMPROPER DISPOSAL OF SOLID WASTE; AND INSURING THE PURITY AND SAFETY OF DRINKING WATER IN THE UNITED STATES. (BB)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($5.25)

INSTITUTION NAME: GENERAL ACCOUNTING OFFICE, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003716

ERIC ACCESSION NUMBER: ED117010

PUBLICATION DATE: 73

TITLE: FOOD PRODUCTION, POPULATION GROWTH, AND ENVIRONMENTAL QUALITY. CALTECH POPULATION PROGRAM OCCASIONAL PAPERS, SERIES 1, NUMBER 7.

PERSONAL AUTHOR: GROTH, EDWARD, III

INSTITUTION CODE: CIQ10575

DESCRIPTOR: CONSERVATION (ENVIRONMENT); *ECOLOGICAL FACTORS; ENERGY; *ENVIRONMENTAL INFLUENCES; FERTILIZERS; *FOOD; LAND USE; NATURAL RESOURCES; PESTICIDES; *POPULATION GROWTH; POPULATION TRENDS; *SOCIAL SCIENCES; SOIL CONSERVATION; WATER RESOURCES; WORLD PROBLEMS

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.95 PLUS POSTAGE

DESCRIPTIVE NOTE: 27P.; FOR RELATED DOCUMENTS, SEE SE 018 842-846

ISSUE: RIEMAY76

ABSTRACT: THIS PAPER, ONE IN A SERIES OF OCCASIONAL PUBLICATIONS, DISCUSSES TRENDS IN FOOD PRODUCTION AND POPULATION GROWTH, EMPHASIZING HOW ENVIRONMENTAL QUALITY WILL BE AFFECTED. THE SERIES IS INTENDED TO INCREASE UNDERSTANDING OF THE INTERRELATIONSHIPS BETWEEN POPULATION GROWTH AND SOCIOECONOMIC AND CULTURAL PATTERNS THROUGHOUT THE WORLD, AND TO COMMUNICATE THIS UNDERSTANDING TO SCHOLARS AND POLICY MAKERS. THIS PUBLICATION INCLUDES A DISCUSSION OF THE FOLLOWING: (1) LAND RESOURCES AND PRODUCTIVE CAPACITY; (2) WATER RESOURCES AND WATER QUALITY; (3) ENERGY AND FOOD PRODUCTION; (4) FERTILIZERS AND SOIL NUTRIENTS; (5) PEST MANAGEMENT; (6) ORGANIC RESIDUES FROM AGRICULTURE AND FOOD PROCESSING; (7) THREATS TO ECOLOGICAL STABILITY; (8) TRADE-OFFS: ENVIRONMENTAL QUALITY, FOOD PRODUCTION, AND COSTS; AND (9) THE ROLE OF POPULATION GROWTH. (AUTHOR/RM)

INSTITUTION NAME: CALIFORNIA INST. OF TECH., PASADENA.

IRIS ACCESSION NUMBER: EW003717

PUBLICATION DATE: 75

TITLE: CROSS-CONNECTION CONTROL MANUAL.

DESCRIPTOR: *CROSS-CONNECTIONS; DESIGN; ENGINEERING; *EQUIPMENT; *HYDRAULICS; INSTRUCTIONAL MATERIALS; *PLUMBING; POLLUTION; UTILITIES; *WASTEWATER TREATMENT; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 57P.

ABSTRACT: THIS MANUAL PRESENTS INFORMATION ON THE USE OF CROSS-CONNECTIONS IN WATER AND WASTEWATER SUPPLY SYSTEMS. THE TEXT DEFINES, DESCRIBES, AND ILLUSTRATES TYPICAL CROSS-CONNECTIONS AND SUGGESTS METHODS AND DEVICES FOR ELIMINATING THEM WITHOUT INTERFERING WITH THE FUNCTIONS OF PLUMBING OR WATER SUPPLY DISTRIBUTION SYSTEMS. (CS)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($2.20)

INSTITUTION NAME: U.S. EPA, OFFICE OF WATER PROGRAMS, WATER SUPPLY DIVISION.

IRIS ACCESSION NUMBER: EW003718

ERIC ACCESSION NUMBER: ED107495

PUBLICATION DATE: 74

TITLE: A CURRICULUM GUIDE FOR NINTH GRADE IN ENVIRONMENTAL SCIENCE. FIRST ROUGH DRAFT.

PERSONAL AUTHOR: MCKENNA, HAROLD J.

INSTITUTION CODE: QPX14625

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: CASE STUDIES; *CURRICULUM GUIDES; *ENERGY; *ENVIRONMENTAL EDUCATION; *GRADE 9; INSTRUCTIONAL MATERIALS; INTERDISCIPLINARY APPROACH; *JUNIOR HIGH SCHOOLS; LEARNING ACTIVITIES; PESTICIDES; POLLUTION; POPULATION EDUCATION; SCIENCE EDUCATION; *TEACHER DEVELOPED MATERIALS; TEACHING GUIDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 85P.; MARGINAL LEGIBILITY. A RELATED DOCUMENT IS SE 019 059

ISSUE: RIEOCT75

ABSTRACT: THIS CURRICULUM GUIDE IS A ROUGH DRAFT FOR A SUGGESTED COURSE OF STUDY IN ENVIRONMENTAL SCIENCE. THIS DRAFT WAS DEVELOPED BY SCIENCE TEACHERS FROM THE GREATER NEW YORK AREA AND WAS DESIGNED FOR THE NINTH GRADE, BUT COULD BE USED FOR ANY GRADE LEVEL WITH MODIFICATIONS. THIS COURSE OF STUDY SUGGESTS AN INTERDISCIPLINARY APPROACH TO STUDYING THE ENVIRONMENT AND HAS SUBHEADINGS FOR TEACHERS TO USE IN DEVELOPING THEIR DAILY LESSON PLANS. THERE ARE FOUR MAJOR UNITS IN THE OUTLINE: POPULATION, ENERGY, POLLUTION, AND

POLLUTION. THESE UNITS ARE FURTHER SUBDIVIDED INTO: TOPIC, UNDERSTANDINGS AND CONCEPTS, ACTIVITIES, AND SUPPLEMENTARY INFORMATION. AS MODIFICATION OF THIS GUIDE CONTINUES, IT IS HOPED THAT SPECIFIC LABORATORY AND FIELD MODULES MIGHT BE INCORPORATED ALONG WITH A LIST OF VISUAL AIDS AVAILABLE IN THE VARIOUS TOPICS. (AUTHOR/BT)

AVAILABILITY: DR. HAROLD J. MCKENNA, DIRECTOR, ENVIRONMENTAL STUDIES PROGRAM, THE CITY COLLEGE OF NEW YORK, CLAPPER HALL, ROOM 104, NEW YORK, NEW YORK 10031 ($5.00); ERIC/SMEAC, THE OHIO STATE UNIVERSITY, 400 LINCOLN TOWER, COLUMBUS, OHIO 43210 (ON LOAN)

INSTITUTION NAME: CITY UNIV. OF NEW YORK, N.Y. CITY COLL.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003719

ERIC ACCESSION NUMBER: ED152549

PUBLICATION DATE: 76

TITLE: APPLY PESTICIDES CORRECTLY, A GUIDE FOR COMMERCIAL APPLICATORS: AQUATIC PEST CONTROL.

PERSONAL AUTHOR: WAMSLEY, MARY ANN, ED.; VERMEIRE, DONNA M., ED.

INSTITUTION CODE: BBB14943

SPONSORING AGENCY CODE: BBB13152

DESCRIPTOR: CERTIFICATION; *ENVIRONMENT; ENVIRONMENTAL TECHNICIANS; *HERBICIDES; NATURAL RESOURCES; PESTICIDES; PUBLIC HEALTH; *WATER POLLUTION CONTROL; WATER RESOURCES; WEEDS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 11P.; FOR RELATED DOCUMENTS, SEE SE 024 078-087

ISSUE: RIEAUG78

ABSTRACT: THIS GUIDE PRESENTS INFORMATION NEEDED TO MEET THE REQUIREMENTS FOR PESTICIDE APPLICATOR CERTIFICATION. THE FIRST PART DEALS WITH RECOGNITION AND CONTROL OF AQUATIC PESTS SUCH AS AQUATIC WEEDS, FISH AND OTHER VERTEBRATES. ENVIRONMENTAL CONCERNS IN AQUATIC PEST CONTROL ARE DISCUSSED IN THE SECOND SECTION. (CS)

CONTRACT NUMBER: EPA-68-01-2918

INSTITUTION NAME: CALIFORNIA STATE POLYTECHNIC UNIV., POMONA.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF PESTICIDE PROGRAMS.

IRIS ACCESSION NUMBER: EW003722

ERIC ACCESSION NUMBER: ED092461

PUBLICATION DATE: 26 AUG 70

TITLE: A BIBLIOGRAPHY OF CLASSIC AND CURRENT MATERIALS IN ECOLOGY AND ENVIRONMENT.

PERSONAL AUTHOR: SHEAFFER, SHEILA J., COMP.

INSTITUTION CODE: BBB10378

DESCRIPTOR: AMERICAN STUDIES; ANNOTATED BIBLIOGRAPHIES; *CONSERVATION EDUCATION; DEPLETED RESOURCES; *ECOLOGY; *ENVIRONMENTAL EDUCATION; FOOD; *FUTURES (OF SOCIETY); *NATURAL RESOURCES; PESTICIDES; POLLUTION; POPULATION TRENDS; RESOURCE ALLOCATIONS; URBAN ENVIRONMENT; WILDLIFE MANAGEMENT; WORLD PROBLEMS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 48P.

ISSUE: RIEOCT74

ABSTRACT: THIS BIBLIOGRAPHY IS INTENDED FOR STUDENTS AND LAYMEN WHO WISH TO GAIN INFORMATION ABOUT ENVIRONMENTAL PROBLEMS FACING THE WORLD TODAY AND CONSISTS OF MORE THAN 250 DESCRIPTIVE ANNOTATIONS OF PRIMARILY NONTECHNICAL MATERIALS. ENTRIES ARE LISTED ONCE, ALPHABETICALLY BY AUTHOR, IN ONE OF THE FOLLOWING BROAD SUBJECT AREAS: GENERAL BOOKS ON ENVIRONMENT, URBAN ENVIRONMENT, ECOLOGY-NATURAL HISTORY, PESTICIDES AND POLLUTION, THE AMERICAN SCENE, POPULATION AND FOOD PRODUCTION, SCIENCE AND THE FUTURE, CONSERVATION-GENERAL, RESOURCE MANAGEMENT AND CONSERVATION, WILDLIFE, JOURNALS, AND REFERENCE. AN AUTHOR INDEX COMPLETES THE BIBLIOGRAPHY. (JH)

INSTITUTION NAME: WISCONSIN UNIV., MADISON. CENTER FOR ENVIRONMENTAL COMMUNICATIONS AND EDUCATION STUDIES.

IRIS ACCESSION NUMBER: EW003723

ERIC ACCESSION NUMBER: ED077703

PUBLICATION DATE: DEC 72

TITLE: THE CHALLENGE OF THE ENVIRONMENT: A PRIMER ON EPA'S STATUTORY AUTHORITY.

INSTITUTION CODE: BBB06039

DESCRIPTOR: *AGENCY ROLE; AIR POLLUTION CONTROL; *ENVIRONMENT; *FEDERAL LEGISLATION; *LEGAL RESPONSIBILITY; PESTICIDES; *QUALITY CONTROL; RADIATION; STATE OF THE ART REVIEWS; WASTES; WATER POLLUTION CONTROL; NOISE POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 50P.

ISSUE: RIEOCT73

ABSTRACT: IN RESPONSE TO CONTINUED DISCUSSION OF POLLUTION AND ENVIRONMENTAL ISSUES, THE ENVIRONMENTAL PROTECTION AGENCY (EPA) HAS DESIGNED THIS BOOKLET TO GIVE INTERESTED CITIZENS AN IDEA OF THE SCOPE OF THE AGENCY'S DUTIES AND RESPONSIBILITIES BY PROVIDING A BRIEF SUMMARY OF ITS LEGAL AUTHORITY. AN OVERVIEW OF THE AGENCY SHOWS IT IS AN INDEPENDENT, REGULATORY AGENCY WITH A MISSION TO PROTECT AND ENHANCE THE ENVIRONMENT. IN GENERAL, IT IS RESPONSIBLE FOR CONDUCTING RESEARCH AND DEMONSTRATIONS, FOR ESTABLISHING AND ENFORCING STANDARDS, FOR MONITORING POLLUTION, AND FOR ASSISTING STATE AND LOCAL GOVERNMENTS IN THEIR OWN EFFORTS. EPA'S LEGAL AUTHORITY AND RESPONSIBILITY FOR CONDUCTING ACTIVITIES IN THE AREAS OF AIR AND WATER POLLUTION, SOLID WASTES, PESTICIDES, ENVIRONMENTAL RADIATION, AND NOISE ARE ENUMERATED. ALTHOUGH EACH TOPIC DISCUSSES LEGAL ASPECTS SPECIFIC TO ITSELF, THEY ALL TEND TO COVER THE LEGISLATIVE BACKGROUND, VARIOUS STANDARDS, IMPLEMENTATION PLANS, ENFORCEMENT, GRANTS, RESEARCH, AND OTHER LEGISLATION. WORLDWIDE POLLUTION IS ALSO CONSIDERED VIA A REVIEW OF INTERNATIONAL CONVENTIONS, PROJECTS, STANDARDS, AND ABATEMENT CONFERENCES. A BIBLIOGRAPHY OF REPORTS, ACTS, AND REGULATIONS IS INCLUDED. (BL)

REPORT NUMBER: EPA-335

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($0.45)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003725

ERIC ACCESSION NUMBER: ED058136

PUBLICATION DATE: 71

TITLE: ENVIRONMENT AND THE LAW. LEGAL ALMANAC SERIES.

PERSONAL AUTHOR: SLOAN, IRVING J.

DESCRIPTOR: AIR POLLUTION CONTROL; BIBLIOGRAPHIES; ECOLOGY; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; FEDERAL LAWS; FEDERAL LEGISLATION; INTERNATIONAL ORGANIZATIONS; LAND USE; *LAWS; *LEGAL PROBLEMS; *LEGISLATION; PESTICIDES; *POLLUTION; PUBLIC POLICY; STATE LAWS; STATE LEGISLATION; WATER POLLUTION CONTROL; NOISE POLLUTION CONTROL

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 126P.

ISSUE: RIEAPR72

ABSTRACT: THIS SURVEY IS DESIGNED TO PROVIDE THE GENERAL READER WITH SOME BASIC BACKGROUND ON THE LEGAL ASPECTS OF THE EFFORT TO ACHIEVE ENVIRONMENTAL QUALITY. THE FIRST CHAPTER DISCUSSES THE STRUCTURE OF FEDERAL ENVIRONMENTAL CONTROL IN TERMS OF NEWLY ESTABLISHED AGENCIES AND RECENTLY ENACTED LEGISLATION. OTHER CHAPTERS DEAL INDIVIDUALLY WITH AIR, WATER, AND NOISE POLLUTION WITHIN THE FRAMEWORK OF THE PROCESS AND CAUSES OF THESE TYPES OF POLLUTION, AND A REVIEW OF THE RELEVANT LEGISLATIVE CONTROLS. TWO OTHER CHAPTERS TAKE UP PESTICIDES, AND LAND USE WITHIN A SIMILAR FRAMEWORK. ONE ENTIRE CHAPTER IS DEVOTED TO PROCEDURAL ASPECTS OF ENVIRONMENTAL LAW. IT DISCUSSES FUNDAMENTAL PROBLEMS FACED BY ENVIRONMENTAL LAWYERS, AND STRATEGIES THEY FREQUENTLY EMPLOYED. THE INTERNATIONAL ROLE IN ENVIRONMENTAL QUALITY IS THE SUBJECT OF ANOTHER SECTION. IT DISCUSSES THE ACTIVITIES OF THE UNITED NATIONS AND OTHER INTERGOVERNMENTAL BODIES, BILATERAL COOPERATION, AND THE ACTIVITIES OF NONGOVERNMENTAL ORGANIZATIONS. THE TEXT CONCLUDES WITH SUMMARIES OF FEDERAL ANTI-POLLUTION LEGISLATION; SELECTED STATE AIR AND WATER POLLUTION CONTROL STATUTES; AND EXCERPTS FROM LEADING CASES ON ENVIRONMENTAL LAW. APPENDICES PROVIDE THE TEXTS OF ENVIRONMENTAL DOCUMENTS, AND OTHER RESOURCES. (AUTHOR/JLB)

AVAILABILITY: OCEANA PUBLICATIONS, INC., DOBBS FERRY, NEW YORK ($3.25)

IRIS ACCESSION NUMBER: EW003726

PUBLICATION DATE: 78

TITLE: CONSIDERATIONS FOR PREPARATION OF OPERATION AND MAINTENANCE MANUALS.

PERSONAL AUTHOR: GREEN, R. L., AND OTHERS

DESCRIPTOR: *COMMUNICATION SKILLS; EQUIPMENT MAINTENANCE; *FACILITIES; LABORATORY TESTING; *MANUALS; PERMITS; PERSONNEL; *PUMPING STATIONS; SAFETY; STANDARDS; *TRAINING MANUALS; UTILITIES; WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 239P.

ABSTRACT: THIS DOCUMENT PROVIDES CONSIDERATIONS FOR THE PREPARATION OF MUNICIPAL WATER TREATMENT PLANT OPERATION AND MAINTENANCE MANUALS. TOPIC AREAS INCLUDE: (1) PERMITS AND STANDARDS; (2) SLUDGE HANDLING; (3) PERSONNEL; (4) LABORATORY TESTING; (5) SAFETY; (6) EMERGENCY OPERATIONS; AND (7) OTHER UTILITIES. DETAILED DISCUSSIONS ON THE TYPE OF INFORMATION TO BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL ARE FOUND IN EACH SECTION. A SUGGESTED MANUAL OUTLINE IS INCLUDED FOR TREATMENT PLANTS AND FOR PUMPING STATIONS AND PIPELINES. (CS)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($3.10)

IRIS ACCESSION NUMBER: EW003727

ERIC ACCESSION NUMBER: ED038204

PUBLICATION DATE: 17 FEB 70

TITLE: THE ENVIRONMENT: AGRICULTURE AND HEALTH

PERSPECTIVES.

PERSONAL AUTHOR: JOHNSON, CHARLES C.; BYERLY, T. C.

INSTITUTION CODE: BBBU0409

DESCRIPTOR: *AGRICULTURE; AIR POLLUTION CONTROL; ECOLOGY; *ENVIRONMENTAL INFLUENCES; *HEALTH; LAND USE; *LEGISLATION; PESTICIDES; RADIATION EFFECTS; SOIL CONSERVATION; *SPEECHES; THERMAL ENVIRONMENT; WATER POLLUTION CONTROL; WEEDS; *ENVIRONMENTAL POLICY ACT

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 20P.; TALKS GIVEN AT 1970 NATIONAL AGRICULTURAL OUTLOOK CONFERENCE, WASHINGTON, D.C., FEBRUARY 17, 1970

ISSUE: RIEAUG70

ABSTRACT: ON JANUARY 1, 1970, PRESIDENT NIXON SIGNED INTO LAW A BILL ESTABLISHING A NATIONAL POLICY TO MAINTAIN CONDITIONS OF THE ENVIRONMENT UNDER WHICH MAN AND NATURE CAN EXIST IN PRODUCTIVE HARMONY. IN KEEPING WITH THIS, THE 1970 NATIONAL AGRICULTURAL OUTLOOK CONFERENCE WAS HELD, AT WHICH THE 2 SPEECHES PRESENTED IN THIS DOCUMENT WERE DELIVERED. THE FIRST SPEECH, "ENVIRONMENT: THE HEALTH PERSPECTIVE," DISCUSSES AVERTING AN ENVIRONMENTAL CATASTROPHE. THE SECOND SPEECH, "THE ENVIRONMENT AND AGRICULTURE," UNDERTAKES TO ANSWER THE FOLLOWING QUESTIONS ABOUT ENVIRONMENT: (1) WHAT IS IT? (2) WHAT ARE THE MAJOR FACTORS AND INTERACTIONS DETERMINING QUALITY OF ENVIRONMENT? (3) WHAT IS ITS PRESENT CONDITION? (4) WHAT IS AGRICULTURE'S CONTRIBUTION, ACTUAL AND POTENTIAL, BENEFICIAL AND DETRIMENTAL, TO QUALITY OF ENVIRONMENT? (5) WHAT IS BEING DONE TO IMPROVE QUALITY OF ENVIRONMENT? (6) WHAT KIND OF ENVIRONMENT DO WE WANT? IT IS CONCLUDED THAT EFFICIENCY OF AGRICULTURE IS A MAJOR DETERMINANT IN QUALITY OF RURAL, URBAN, LOCAL, AND GLOBAL ENVIRONMENTS. AGRICULTURAL POLLUTION CAN BE RESOLVED BY DEVELOPMENT AND APPLICATION OF SYSTEMS WHICH ARE TECHNOLOGICALLY EFFECTIVE AND SOCIALLY AND ECONOMICALLY ACCEPTABLE. (AN)

INSTITUTION NAME: DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C. ECONOMIC RESEARCH SERVICE.

IRIS ACCESSION NUMBER: EW003728

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL ANALYSIS FOR LAND USE AND SITE PLANNING.

PERSONAL AUTHOR: MARSH, WILLIAM M.

DESCRIPTOR: BOTANY; *ENVIRONMENTAL RESEARCH; *LAND USE; *MAP SKILLS; *NATURAL RESOURCES; *PHYSICAL GEOGRAPHY; PLANNING; *SOIL SCIENCE

DESCRIPTIVE NOTE: 292P.

ABSTRACT: ILLUSTRATED IS A METHODOLOGY FOR THE GENERATION OF ENVIRONMENTAL INFORMATION FROM READY SOURCES OF PROCESSED DATA. GOVERNMENTAL SOURCES OF DATA AND INFORMATION ON IDENTIFIED AND APPLICATION METHODS ARE DISCUSSED. THE FIRST FIVE CHAPTERS DEAL WITH THE TECHNIQUES OF TERRAIN ANALYSIS, INCLUDING MEASUREMENT AND SAMPLING, MAPPING, VEGETATION INTERPRETATION, AND FLOOD ANALYSIS. THE REMAINING CHAPTERS EXAMINE THE USE OF ENVIRONMENTAL INFORMATION IN PLANNING, INCLUDING THE TYPES OF TASKS AND PROBLEMS FOR WHICH IT IS PRODUCED AND THE METHODS THAT CAN BE EMPLOYED TO COMMUNICATE IT. (CS)

AVAILABILITY: MCGRAW-HILL BOOK CO., MANCHESTER RD., MANCHESTER, MD 63011 ($22.50)

IRIS ACCESSION NUMBER: EW003729

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL POLLUTANTS: SELECTED ANALYTICAL METHODS (SCOPE 6).

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMICAL ANALYSIS; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MEASUREMENT TECHNIQUES; *POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH

DESCRIPTIVE NOTE: 277P.

ABSTRACT: THIS BOOK FOCUSES ON SPECIFIC ANALYTICAL TECHNIQUES FOR DETERMINATION OF POLLUTANTS IN THE AIR. AMONG THE METHODS DISCUSSED ARE ATOMIC ABSORPTION, SPECTROPHOTOMETRY, COULOMETRIC TITRATION, INFRARED SPECTROMETRY AND FLAME IONIZATION AND DETECTION. POLLUTANTS DEALT WITH INCLUDE ZINC, COPPER, SULFUR DIOXIDE, CARBON MONOXIDE, DDT AND RELATED COMPOUNDS, POLYCHLOROBIPHENYLS AND NITROGEN OXIDES. EACH TECHNIQUE IS EXPLAINED WITH INFORMATION ON THE PRINCIPLE OF THE REACTION, REAGENTS AND MATERIALS, APPARATUS, SAMPLING, PROCEDURE, NOTES AND REFERENCES. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, P.O. BOX 1425, ANN ARBOR, MI 48106 ($22.50)

INSTITUTION NAME: ANN ARBOR SCIENCE PUBLISHERS.

IRIS ACCESSION NUMBER: E[illegible]

PUBLICATION DATE: 76

TITLE: TOXIC METALS. [illegible] PROTECTION.

PERSONAL AUTHOR: SITTIG, [illegible]

DESCRIPTOR: ENVIRONMENTAL [illegible] INDUSTRY; *INSTRUCTIONAL MATERIALS; *POLLUTION; POST SECONDARY EDUCA[illegible] *SAFETY; TECHNICAL EDUCA[illegible] ENVIRONMENT; *EFFLUENTS; *TOXIC [illegible]

DESCRIPTIVE NOTE: 350P.

ABSTRACT: TH[illegible] IS A PR[illegible] THEIR COMPOUNDS THAT ARE MOST [illegible] INDUSTRY WHILE BEING PROCESSED [illegible] THE PROCESS EFFLUENTS ARE [illegible] WITH THE EXPLANATION OF TOXIC [illegible] PRESENTED. THE 18 CHAPTERS INCLUDE [illegible] METALS: ANTIMONY, ARSENIC, BARI[illegible] CADMIUM, CHROMIUM, COPPER, INDI[illegible] MOLYBDENUM, NICKEL, SELENIUM, [illegible] CHAPTER IS ORGANIZED IN THE FO[illegible] THE TOXIC METALS: (1) TOXICITY [illegible] DETECTION; (4) ENVIRONMENTAL [illegible] PROCEDURES; (6) REMOVAL FROM [illegible] (8) SOLID DISPOSAL; AND (9) PHY[illegible] A BIBLIOGRAPHIC REFERENC[illegible] EACH CHAPTER. (HM)

AVAILABILITY: NOYES DATA CORP[illegible] 07656 ($39.00)

IRIS ACCESSION NUMBER: [illegible]

PUBLICATION DATE: 77

TITLE: LAND AS A WASTE MANAGE[illegible]

PERSONAL AUTHOR: LOEHR, RAYMOND [illegible]

DESCRIPTOR: *AGRICULTURE; *[illegible] CONSERVATION (ENVIRONMENT); ENVI[illegible] USE; NATURAL RESOURCES; *PUBL[illegible] MATERIALS; *SCIENTIFIC RESEARCH; [illegible] WATER POLLUTION CONTROL; *SEWAGE; [illegible]

DESCRIPTIVE NOTE: 811P.

ABSTRACT: THIS PUBLICATION [illegible] CORNELL AGRICULTURAL WASTE MANAGE[illegible] CONFERENCE PAPERS ARE ORGANIZED [illegible] REGULATORY AND FUNDAMENTAL ASPE[illegible] NITROGEN, PHOSPHORUS AND HEAVY M[illegible] (4) CASE HISTORIES OF LAND [illegible] APPLICATION OF SLUDGES TO LAND[illegible] AGRICULTURAL WASTES. PAPERS [illegible] DISADVANTAGES OF USING LAND FOR [illegible] TOXIC MATERIAL BUILD-UP IN SO[illegible] GROUNDWATERS, EVALUATION OF [illegible] AND METHODS, AND OTHER [illegible] LAND APPLICATION OF MUNICIPAL WASTE[illegible] AND SLUDGES ARE INCLUDED. (MK)

AVAILABILITY: ANN ARBOR SCIE[illegible] ANN ARBOR, MI 48106 ($29.[illegible])

IRIS ACCESSION NUMBER: E[illegible]

PUBLICATION DATE: 75

TITLE: RESOURCE RECOVERY [illegible] INDUSTRIAL WASTES.

PERSONAL AUTHOR: SITTIG, [illegible]

DESCRIPTOR: AIR POLLUTION [illegible] *ENVIRONMENTAL RESEARCH; [illegible] MANUFACTURING; NATURAL RESOURC[illegible] *RECYCLING; *REFERENCE MATERIA[illegible] POLLUTION CONTROL

DESCRIPTIVE NOTE: 427P.

ABSTRACT: THIS VOLUME [illegible] TECHNOLOGY AVAILABLE FOR RESOURCE RE[illegible] INDUSTRIAL WASTES. DATA ARE COMPI[illegible] SPONSORED PROJECTS AND RECENT [illegible] ARRANGED IN AN ALPHABETICAL [illegible] INCLUDE COMPLEX WASTE PRODUCTS, [illegible] BEVERAGE, INDUSTRY WASTES, GLASS [illegible] MATERIALS, NATURAL PRODUCTS, [illegible] MATERIALS, PAPER AND WOOD MILL WASTE[illegible] RUBBER. (CS)

AVAILABILITY: NOYES DATA CORP[illegible]

07656 ($36.00)

IRIS ACCESSION NUMBER: EW003733

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL MONITORING.

PERSONAL AUTHOR: MILLER, STANTON S., ED.

DESCRIPTOR: AIR POLLUTION CONTROL; *ENVIRONMENTAL INFLUENCES; EQUIPMENT; *GLOBAL APPROACH; INSTRUMENTATION; LABORATORY PROCEDURES; *MEASUREMENT; NATURAL RESOURCES; *POLLUTION; *RESEARCH; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 197P.

ABSTRACT: AS PART OF A CONTINUING SERIES, THIS BOOK CONTAINS A COLLECTION OF ARTICLES AND EDITORIALS WHICH HAVE APPEARED IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY FROM 1973 TO MID-1976. THESE ARTICLES ARE PROVIDED TO HELP READERS BECOME FAMILIAR WITH THE ADVANCEMENTS WHICH HAVE OCCURRED IN THE ENVIRONMENTAL DECADE OF THE 70'S. INSTRUMENTS, TECHNIQUES, AND APPLICATIONS RELATED TO AIR AND WATER POLLUTION CONTROL ARE DISCUSSED ON A NATIONAL AND INTERNATIONAL SCALE. (CS)

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH ST., NW, WASHINGTON, D.C. 20036 ($13.50)

IRIS ACCESSION NUMBER: EW003734

PUBLICATION DATE: 77

TITLE: CHEMICAL ANALYSIS OF ORGANOMETALLIC COMPOUNDS.

PERSONAL AUTHOR: CROMPTON, F. R.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *CHEMISTRY; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *METALS; *ORGANIC COMPOUNDS; *PESTICIDES

DESCRIPTIVE NOTE: 432P.

ABSTRACT: THIS IS VOLUME 5 OF A SERIES ON THE ANALYTICAL CHEMISTRY OF THE ORGANOMETALLIC COMPOUNDS OF ALL THE ELEMENTS IN THE PERIODIC TABLE. THIS VOLUME COVERS THE GROUP 6 AND 7 ELEMENTS: CHROMIUM, MOLYBDENUM, TUNGSTEN, URANIUM, SELENIUM, TELLURIUM, MANGANESE, IRON, COBALT, NICKEL AND THE PLATINUM GROUP. ALSO INCLUDED ARE CHAPTERS DEALING WITH THE ORGANOMETALLIC COMPOUNDS OF ALUMINUM AND ZINC. EACH CHAPTER STARTS WITH A DISCUSSION OF THE DETERMINATION OF ELEMENTS AND OF FUNCTIONAL GROUPS. FOLLOWING THIS THERE ARE VARIOUS OTHER SECTIONS COMPRISING DIFFERENT TECHNIQUES FOR ANALYSIS OF DIFFERENT CLASSES OF COMPOUNDS OF THE ELEMENT. WITH MOST ELEMENTS GAS CHROMATOGRAPHY HAS BEEN APPLIED AND THIS IMPORTANT TECHNIQUE IS DISCUSSED IN DETAIL IN A SEPARATE SECTION, AS ARE THE VARIOUS SPECTROSCOPIC TECHNIQUES. DETAILED PROCEDURES ARE PRESENTED WHICH SHOULD ENABLE THE READER TO APPLY THE METHODS WITHOUT FURTHER REFERENCE TO THE ORIGINAL SOURCE. (BB)

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($46.00)

IRIS ACCESSION NUMBER: EW003735

PUBLICATION DATE: 78

TITLE: THE HOUSEHOLD POLLUTANTS GUIDE.

PERSONAL AUTHOR: FRITSCH, ALBERT J., ED.

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL REACTIONS; CLEANING; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL INFLUENCES; *FAMILY ENVIRONMENT; *POLLUTION; PUBLIC HEALTH; *REFERENCE MATERIALS; *SAFETY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 309P.

ABSTRACT: THIS MANUAL PROVIDES INFORMATION TO HELP THE HOMEMAKER DETECT, UNDERSTAND, AND SUBSTITUTE FOR HARMFUL HOUSEHOLD MATERIALS. IN CHAPTER ONE, A METHOD IS DETAILED FOR DETECTION OF HARMFUL POLLUTANTS. CHAPTER TWO DESCRIBES A SERIES OF POLLUTANT CATEGORIES AND GIVES SELECTED AVAILABLE INFORMATION FOR TOXIC EFFECTS OF MANY HOUSEHOLD MATERIALS AND PRACTICES. TOPICS INCLUDE AEROSOL SPRAYS, FURNITURE AND FLOOR POLISHES, DETERGENTS, OVEN AND OTHER CLEANERS, MOTOR VEHICLE PRODUCTS, UTENSIL COATINGS, HOBBIES, ARTS, CRAFTS, DECORATIONS, AND PET WASTES. EACH SECTION ALSO DISCUSSES SUBSTITUTES AND REMEDIES FOR THE SPECIFIC PROBLEM AREAS. A LISTING BY STATE OF FEDERAL INFORMATION CENTERS IS PROVIDED IN THE APPENDIX. (CS)

AVAILABILITY: ANCHOR BOOKS, DOUBLEDAY & CO., INC., 501 FRANKLIN AVE., GARDEN CITY, NY 11530 ($3.50)

IRIS ACCESSION NUMBER: EW003736

PUBLICATION DATE: 74

TITLE: ELEMENTS OF ENVIRONMENTAL HEALTH.

PERSONAL AUTHOR: NEWTON, DAVID F.

DESCRIPTOR: *DISEASE CONTROL; *ENVIRONMENT; *HEALTH EDUCATION; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; METALS; PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; *PUBLIC HEALTH; WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 327P.

ABSTRACT: ELEMENTS OF ENVIRONMENTAL HEALTH EXPLAINS THE NATURE AND SCOPE OF THOSE PHYSICAL HAZARDS IN THE ENVIRONMENT WHICH MAY UNFAVORABLY AFFECT HUMAN HEALTH, AND SCIENTIFIC PRINCIPLES AND TECHNOLOGICAL METHODS WHICH MAY BE EMPLOYED TO CONTROL THESE HAZARDS AND PREVENT ILLNESS AND INJURY. THE TEXT BEGINS WITH A GENERAL OVERVIEW OF THE FIELD OF ENVIRONMENTAL HEALTH WHICH EXPLAINS ITS CONTENT AND RATIONALE. THIS IS FOLLOWED BY AN EXPLANATION OF THE FACTORS INVOLVED IN DISEASE CAUSATION AND THE MEANS BY WHICH THE DISEASE PROCESS CAN BE HALTED. THE SUBSEQUENT CHAPTERS DESCRIBE SPECIFIC ENVIRONMENTAL HEALTH ACTIVITIES AND CONCERNS. THE CLOSING CHAPTERS ILLUSTRATE THE RELATIVE IMPORTANCE OF SUCH ACTIVITIES IN SELECTED MANMADE ENVIRONMENTS AND THE ROLE OF THE GOVERNMENT IN ADMINISTERING PROGRAMS TO ENSURE A SAFE ENVIRONMENT. THE BOOK IS WRITTEN PRIMARILY AS A COLLEGE-LEVEL TEXT SUITABLE FOR USE IN INTRODUCTORY ENVIRONMENTAL HEALTH COURSES. IT SHOULD ALSO BE SUITABLE AS A TEXT OR SUPPLEMENTAL READING IN HIGH SCHOOL SCIENCE AND HEALTH CLASSES. (BB)

AVAILABILITY: CHARLES MERRILL PUB. CO., 1300 ALUM CREEK DR., COLUMBUS, OHIO 43216 ($14.95)

IRIS ACCESSION NUMBER: EW003737

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL MEDIATION.

DESCRIPTOR: *ENVIRONMENT; GOVERNMENT; *INDUSTRY; *POLLUTION; *PUBLIC HEALTH; *ENVIRONMENTAL MEDIATION

DESCRIPTIVE NOTE: 55P.

ABSTRACT: THE MAIN POINTS RAISED AT THIS CONFERENCE ARE THE FOLLOWING: ENVIRONMENTAL MEDIATION AND RELATED TECHNIQUES OFFER PROMISING NEW APPROACHES TO ENVIRONMENTAL DECISION-MAKING. THEY REPRESENT A NEW ADDITION TO THE DECISION-MAKING TOOL KIT, NOT A SUBSTITUTION FOR OTHER PROCESSES. ENVIRONMENTAL MEDIATORS CAN LEARN MUCH FROM THE EXPERIENCE OF LABOR MEDIATORS. CONFLICT RESOLUTION IS NOT AN END TO ITSELF; RATHER, IT IS A MEANS TO SOUND ENVIRONMENTAL DECISION-MAKING. OTHER TOPICS DISCUSSED ARE CATEGORIES OF DISPUTES APPROPRIATE FOR MEDIATION, NECESSARY QUALIFICATIONS FOR ENVIRONMENTAL MEDIATORS, THE TIME FOR MEDIATION, THE ROLE OF THE MEDIATOR, PUBLIC ACCESSIBILITY, AND OTHERS. SEVEN CASE HISTORIES ARE INCLUDED. (BB)

AVAILABILITY: RESOLVE, 360 BRYANT ST., PALO ALTO, CA 94301 ($3.00)

INSTITUTION NAME: RESOLVE, CENTER FOR ENVIRONMENTAL CONFLICT RESOLUTION.

IRIS ACCESSION NUMBER: EW003738

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL HEALTH PLANNING.

PERSONAL AUTHOR: FITZPATRICK, MALCOLM S.

DESCRIPTOR: COMMUNITY HEALTH; ECOLOGY; *ENVIRONMENT; ENVIRONMENTAL EFFECTS; EVALUATION; *INSTRUCTIONAL MATERIALS; LAND USE; *MANAGEMENT; *PLANNING; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; QUALITY; URBAN AREAS

DESCRIPTIVE NOTE: 265P.

ABSTRACT: THIS BOOK DESCRIBES THE BASIC PHILOSOPHY OF ENVIRONMENTAL HEALTH PLANNING, THE CRITERIA BY WHICH IT COULD BE IMPLEMENTED OR BY WHICH PROJECTS COULD BE EVALUATED, AND APPLIES THESE CRITERIA TO PROPOSED PROJECTS IN ORDER TO DEMONSTRATE THAT THE CRITERIA CAN BE USED AS PRAGMATIC PLANNING AND EVALUATION TOOLS. THE BOOK ALSO DESCRIBES THE BREADTH AND DEPTH OF INFORMATION RELATED TO ENVIRONMENTAL HEALTH PLANNING, PROVIDES A FRAMEWORK BY WHICH THIS INFORMATION CAN BE USED, AND DEMONSTRATES THE PROBABLE LIABILITIES AND BENEFITS OF THE FIRST TEN FEDERALLY-ASSISTED NEW TOWNS HAVING ENVIRONMENTAL IMPACT STATEMENTS, AND EVALUATES THE CONTENT OF THESE STATEMENTS IN TERMS OF THEIR USE IN PLANNING DECISIONS. (BB)

AVAILABILITY: BALLINGER PUB. CO., 17 DUNSTER ST., HARVARD SQ., CAMBRIDGE, MA 02138 ($16.50)

IRIS ACCESSION NUMBER: EW003739

PUBLICATION DATE: 78

TITLE: ENVIRONMENTAL POLLUTANTS: DETECTION AND MEASUREMENT.

PERSONAL AUTHOR: TORIBARA, TAFT Y.; AND OTHERS

DESCRIPTOR: AIR POLLUTION CONTROL; BIOLOGY; *CHEMICAL ANALYSIS; CHEMISTRY; CONFERENCES; *ENVIRONMENT; LABORATORY PROCEDURES; *MEASUREMENT TECHNIQUES; *POLLUTION; PUBLIC HEALTH; RESEARCH; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 500P.

ABSTRACT: THIS DOCUMENT REPORTS ON THE FINDINGS OF THE 10TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL TOXICITY HELD AT THE UNIVERSITY OF ROCHESTER. TOPICS INCLUDED IN THIS BOOK INCLUDE SPECIFICATION OF ANALYTICAL PROBLEMS, FAMILIAR PRINCIPLES, METHODS FOR FIELD USE, HIGH SPATIAL RESOLUTION MICROPROBE METHODS, AND PHYSICAL ANALYTICAL METHODS. EACH OF THE PAPERS PRESENTED AT THE CONFERENCE IS ABSTRACTED AND ACCOMPANIED BY REFERENCES AND APPENDICES AS APPROPRIATE. (CS)

AVAILABILITY: PLENUM PUB. CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($42.50)

IRIS ACCESSION NUMBER: EW003740

PUBLICATION DATE: 76

TITLE: PERCEIVING ENVIRONMENTAL QUALITY.

PERSONAL AUTHOR: CRAIK, KENNETH H., ED.; AND OTHERS

DESCRIPTOR: AIR POLLUTION CONTROL; ECOLOGY; *ENVIRONMENT; *ENVIRONMENTAL CRITERIA; *MEASUREMENT; *PERCEPTION; RECREATION; *RESEARCH; RESIDENTIAL PATTERNS; STANDARDS; WATER RESOURCES; *ENVIRONMENTAL QUALITY

DESCRIPTIVE NOTE: 310P.

ABSTRACT: THIS PUBLICATION REPORTS ON A SERIES OF RESEARCH WORKSHOPS THAT EXAMINED THE ROLE ENVIRONMENTAL PERCEPTION PLAYS IN A COMPREHENSIVE SYSTEM OF INDICES FOR ASSESSING AND MONITORING TRENDS IN ENVIRONMENTAL QUALITY. SECTION I PRESENTS AN INTRODUCTION TO ENVIRONMENTAL QUALITY INDICES. SECTIONS II, III, AND IV ARE DEVOTED TO SCENIC AND RECREATIONAL ENVIRONMENTS; RESIDENTIAL AND INSTITUTIONAL ENVIRONMENTS; AND AIR, WATER, AND SONIC ENVIRONMENTS. SECTION V INTEGRATES THE OVERLAPPING RESEARCH NEEDS OF THE THREE MAJOR WORKSHOP AREAS. EACH SECTION PROVIDES CHAPTER REVIEWS AND WORKSHOP SUMMARIES, INCLUDING A LIST OF RESEARCH NEEDS. (CS)

AVAILABILITY: PLENUM PUB. CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($22.50)

IRIS ACCESSION NUMBER: EW003741

PUBLICATION DATE: 71

TITLE: FITTING EQUATIONS TO DATA: COMPUTER ANALYSIS OF MULTIFACTOR DATA FOR SCIENTISTS AND ENGINEERS.

PERSONAL AUTHOR: CUTHBERT, DANIEL; WOOD, FRED S.

DESCRIPTOR: *COMPUTER PROGRAMS; COMPUTERS; *DATA ANALYSIS; DATA PROCESSING; ENGINEERS; *INSTRUCTIONAL MATERIALS; *PROGRAMING LANGUAGE; POST SECONDARY EDUCATION; *RESEARCH METHODOLOGY; *SCIENTIFIC RESEARCH; SCIENTISTS; STATISTICAL ANALYSIS; *STATISTICS

DESCRIPTIVE NOTE: 342P.

ABSTRACT: THIS BOOK DISCUSSES METHODS OF FITTING EQUATIONS TO MULTIFACTOR DATA FOR THE APPROPRIATE USE OF COMPUTER PROGRAMS BY RESEARCH SCIENTISTS AND ENGINEERS. IT INCLUDES NINE CHAPTERS. CHAPTER ONE IS AN INTRODUCTION WHICH HAS A FLOW DIAGRAM OF PROCEDURES USED. CHAPTER TWO DISCUSSES THE ASSUMPTION OF THE LEAST-SQUARES METHOD. CHAPTER THREE PRESENTS DIFFICULTIES ASSOCIATED WITH FITTING DATA WITH ONE INDEPENDENT VARIABLE. ADDITIONAL PROBLEMS ASSOCIATED WITH TWO OR MORE INDEPENDENT VARIABLES ARE ATTACKED IN CHAPTER FOUR. CHAPTER FIVE PRESENTS AN EXAMPLE OF FITTING AN EQUATION WITH THREE INDEPENDENT VARIABLES ASSUMED TO BE KNOWN. CHAPTER SIX DISCUSSES SELECTION METHODS OF THE MOST INFLUENTIAL INDEPENDENT VARIABLES. CHAPTER SEVEN PRESENTS SOME CONSEQUENCES OF THE DISPOSITION OF THE DATA POINTS. CHAPTER EIGHT DISCUSSES THE NESTED MULTIFACTOR DATA. IN CHAPTER NINE AN EXAMPLE OF NONLINEAR LEAST-SQUARES ESTIMATION IS GIVEN. MATHEMATICAL DERIVATIONS, EXAMPLES AND COMPUTER PRINTOUTS ARE PLACED IN APPENDICES AT THE END OF EACH CHAPTER. A GLOSSARY, A BIBLIOGRAPHY AND THE USER'S MANUAL OF THE COMPUTER LINEAR LEAST-SQUARES CURVE FITTING PROGRAM ARE ALSO PRESENTED AT THE END OF THE BOOK. THIS COMPUTER PROGRAM IS USED THROUGHOUT THE BOOK. (HM)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08873 ($26.25)

IRIS ACCESSION NUMBER: EW003742

PUBLICATION DATE: 75

TITLE: DATA ANALYSIS FOR SCIENTISTS AND ENGINEERS.

PERSONAL AUTHOR: MEYER, STUART L.

DESCRIPTOR: *DATA ANALYSIS; *ENGINEERS; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; RESEARCH DESIGN; RESEARCH METHODOLOGY; SCIENCE EDUCATION; SCIENTIFIC PERSONNEL; *SCIENTIFIC RESEARCH; *SCIENTISTS; *STATISTICAL ANALYSIS

DESCRIPTIVE NOTE: 513P.

ABSTRACT: THIS BOOK IS INTENDED FOR PROFESSIONAL SCIENTIFIC INVESTIGATORS AS WELL AS FOR STUDENTS AS A GENERAL REFERENCE AND GUIDE. IT WAS WRITTEN FROM THE POINT OF VIEW OF THE PRACTITIONER OF DATA ANALYSIS, THAT IS, THE SCIENTIST OR ENGINEER USING THE TECHNIQUES. FIVE PARTS ARE PRESENTED IN THIS BOOK: (1) INTRODUCTION TO SCIENTIFIC MEASUREMENT; (2) INTRODUCTION TO GRAPHICAL TECHNIQUES AND CURVE FITTING; (3) PROBABILITY; (4) SOME PROBABILITY DISTRIBUTIONS AND APPLICATIONS; AND (5) STATISTICAL INFERENCE. PART ONE INCLUDES 10 CHAPTERS WHICH COVERS CONCEPTS SUCH AS EXPERIMENTAL ERRORS AND REJECTION OF DATA. PART TWO INCLUDES SIX CHAPTERS WHICH DISCUSS THE FUNCTIONS OF GRAPHICAL TECHNIQUES AND THEIR LIMITATIONS. PART THREE INCLUDES FIVE CHAPTERS WHICH PRESENT THE CONCEPT OF PROBABILITY. PART FOUR INCLUDES SEVEN CHAPTERS WHICH DISCUSS SOME PROBABILITY DISTRIBUTIONS SUCH AS THE BINOMIAL, NORMAL, AND CHI-SQUARE DISTRIBUTIONS. PART FIVE INCLUDES FIVE CHAPTERS THAT PRESENT SOME AREAS OF STATISTICAL INFERENCE SUCH AS ESTIMATION AND HYPOTHESIS TESTING. THIS BOOK ALSO INCLUDES SEVERAL APPENDICES, STATISTICAL TABLES, GUIDE FOR FURTHER READING AND BIBLIOGRAPHY. (HM)

AVAILABILITY: JOHN WILEY & SONS, INC., DEPT 6043, ONE WILEY DR., SOMERSET, NJ 08873 ($21.95)

IRIS ACCESSION NUMBER: EW003743

PUBLICATION DATE: 75

TITLE: HANDBOOK OF ENGINEERING FUNDAMENTALS, 3RD ED.

PERSONAL AUTHOR: ESHBACH, OVID W.; SOUNDERS, MOTT

DESCRIPTOR: CHEMISTRY; COLLEGE SCIENCE; ELECTRONICS; *ENGINEERING; *INSTRUCTIONAL MATERIALS; MANUALS; MATHEMATICS; *PHYSICAL SCIENCES; RADIATION; REFERENCE MATERIALS; THERMODYNAMICS; AUTOMATIC CONTROLS

DESCRIPTIVE NOTE: 1462P.

ABSTRACT: THIS HANDBOOK FOR ENGINEERS PROVIDES A REFERENCE FOR THE PRACTICING PROFESSIONAL. THE TEXT CONTAINS CHARTS, TABLES, AND INFORMATION ON: (1) THE PROPERTIES OF MATERIALS; (2) MATHEMATICAL AND PHYSICAL TABLES; (3) PHYSICAL UNITS AND STANDARDS (4) RADIATION; (5) AERONAUTICS AND (6) CHEMISTRY; (7) ASTRONAUTICS; (8) HEAT TRANSFER; (9) AUTOMATIC CONTROL; AND (10) ENGINEERING ECONOMY. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($33.50)

IRIS ACCESSION NUMBER: EW003744

PUBLICATION DATE: 77

TITLE: HANDBOOK FOR ENVIRONMENTAL PLANNING: THE SOCIAL CONSEQUENCES OF ENVIRONMENTAL CHANGE.

PERSONAL AUTHOR: MCEVOY, JAMES III, ED.; DIETZ, THOMAS, ED.

DESCRIPTOR: *DATA COLLECTION; DEMOGRAPHY; ECONOMICS; *ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; LAND USE; LAWS; PLANNING; *SOCIAL TRENDS; TRANSPORTATION

DESCRIPTIVE NOTE: 323P.

ABSTRACT: THERE ARE SEVEN THEMATIC CHAPTERS IN THIS VOLUME; EACH DEALING WITH ONE BROAD CATEGORY OF SOCIAL IMPACTS. THEY INCLUDE LAW, DEMOGRAPHY, LAND USE, ECONOMICS, TRANSPORTATION, SOCIOCULTURAL, AND THE DISPLAY AND INTEGRATION OF INFORMATION. THE TEXT IS DESIGNED AS A FUNCTIONAL HANDBOOK WITH CROSS-REFERENCING TO PROVIDE GREATER UTILITY. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($23.50)

IRIS ACCESSION NUMBER: EW003745

PUBLICATION DATE: 76

TITLE: INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING.

PERSONAL AUTHOR: BARRETT, E. C.; CURTIS, L. F.

DESCRIPTOR: CLIMATIC FACTORS; *DATA COLLECTION; ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; LAND USE; *NATURAL RESOURCES; *PHOTOGRAPHY; *PHYSICAL ENVIRONMENT; *POST SECONDARY EDUCATION; RADIATION; RESEARCH; *TECHNOLOGY; URBAN AREAS

DESCRIPTIVE NOTE: 336P.

ABSTRACT: THIS TEXT PROVIDES AN INTRODUCTION TO MODERN REMOTE SENSING TECHNIQUES AND APPLICATIONS. IT PROVIDES INFORMATION ABOUT VARIOUS METHODS AND TYPES OF EQUIPMENT USED FOR REMOTE SENSING STUDIES. AFTER INITIAL EXAMINATION OF THE PHYSICAL PRINCIPLES ON WHICH REMOTE SENSING IS BASED, THE TREATMENT OF DATA FOR ANALYSIS AND INTERPRETATION IS DISCUSSED. THE APPLICATIONS EXAMINED INCLUDE STUDIES OF WEATHER ANALYSIS AND FORCASTING, GLOBAL CLIMATOLOGY, SOILS AND LANDFORMS, FORESTRY AND ECOLOGY, CROPS, AND URBAN AND RURAL LAND USE. (CS)

AVAILABILITY: JOHN WILEY AND SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($13.95)

IRIS ACCESSION NUMBER: EW003746

PUBLICATION DATE: 76

TITLE: TECHNIQUES OF ENVIRONMENTAL SYSTEMS ANALYSIS.

PERSONAL AUTHOR: PANTELL, R. H.

DESCRIPTOR: *CONSERVATION (CONCEPTS); COST EFFECTIVENESS; ECONOMICS; *ENVIRONMENTAL INFLUENCES; *MANAGEMENT; *MEASUREMENT; *NATURAL RESOURCES; POLLUTION; *SYSTEMS ANALYSIS

DESCRIPTIVE NOTE: 183P.

ABSTRACT: IN THIS TEXT VARIOUS ASPECTS OF SYSTEMS ANALYSIS AS THEY RELATE TO ENVIRONMENTAL PLANNING ARE PRESENTED. AN OVERVIEW OF SYSTEMS ANALYSIS IS PRESENTED IN THE FIRST CHAPTER. THE SECOND CHAPTER IS CONCERNED WITH ANALYSIS BY MEANS OF CONSERVATION EQUATIONS WHICH DESCRIBE THE RATE OF FLOW OF A COMMODITY INTO AND OUT OF A SYSTEM. CHAPTER 3 IS DEVOTED TO THE ECONOMIC ASPECTS OF ENVIRONMENTAL MANAGEMENT AND CHAPTER 4 DISCUSSES DECISION PROBLEMS ASSOCIATED WITH ENVIRONMENTAL MANAGEMENT. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($15.75)

IRIS ACCESSION NUMBER: EW003747

PUBLICATION DATE: 76

TITLE: CHEMICAL CARCINOGENS.

PERSONAL AUTHOR: SEARLE, CHARLES E.

DESCRIPTOR: *BIOLOGY; *CARCINOGENS; CHEMISTRY; *ENVIRONMENT; *EPIDEMIOLOGY; *LABORATORY TECHNIQUES; MICROBIOLOGY; *PHYSIOLOGY; TOXICITY; *TOXICOLOGY

DESCRIPTIVE NOTE: 788P.

ABSTRACT: THIS MONOGRAPH CONTAINS ACCOUNTS OF THE LATEST THEORIES OF CANCER CHEMISTRY AND BIOLOGY AND OF THE MAJOR HAZARDS IDENTIFIED SO FAR. IT CONTAINS 16 CHAPTERS ON BIOASSAYS AND TESTS; TUMOR-PROMOTING AND CO-CARCINOGENIC AGENTS; ENDOCRINE ASPECTS; CARCINOGENESIS BY ALKYLATING AGENTS; POLYNUCLEAR AROMATIC CARCINOGENS; SOOTS, TARS, AND OILS IN OCCUPATIONAL CANCER; ENVIRONMENTAL RESPIRATORY CARCINOGENESIS; AROMATIC AMINES; EPIDEMIOLOGY; LABORATORY HAZARDS; N-NITROSO COMPOUNDS; CARCINOGENS IN PLANTS AND MICROORGANISMS; THE BRACKEN CARCINOGEN; CARCINOGENS IN FOOD; ASBESTOS CARCINOGENESIS; AND THE METABOLISM OF CHEMICAL CARCINOGENS TO REACTIVE ELECTROPHILES AND THEIR MECHANISMS OF ACTION. (AUTHOR/BB)

AVAILABILITY: AMERICAN CHEMICAL SOCIETY, 1155 SIXTEENTH

ST., NW, WASHINGTON, D.C. 20036 ($67.50)

IRIS ACCESSION NUMBER: EW003748

PUBLICATION DATE: 78

TITLE: QUALITY ASSURANCE PRACTICES FOR HEALTH LABORATORIES.

PERSONAL AUTHOR: INHORN, STANLEY L.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BACTERIA; BIOLOGY; *INSTRUCTIONAL MATERIALS; LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; MICROBIOLOGY; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; *QUALITY CONTROL; TOXICOLOGY; WATER ANALYSIS; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 1244P.

ABSTRACT: THIS BOOK PRESENTS PREVENTIVE, ASSESSMENT, AND CORRECTIVE ACTIVITIES FOR LABORATORY PROCESSES. IT INCLUDES BOTH OPERATING CONCEPTS AND GUIDELINES. CHAPTERS ARE PRESENTED ON THE FOLLOWING TOPICS: LABORATORY MANAGEMENT, LABORATORY EVALUATION AND CERTIFICATION, LABORATORY FACILITIES AND SERVICES, MEASUREMENT AND EVALUATION, DATA TRANSMISSION, AMBIENT AIR TESTING, ANATOMIC PATHOLOGY, BLOOD BANKING, CLINICAL CHEMISTRY, CYTOLOGY, ANALYTICAL FOOD CHEMISTRY, FOOD MICROBIOLOGY, HEMATOLOGY, IMMUNOLOGY, INDUSTRIAL HYGIENE, CLINICAL MICROBIOLOGY, RADIOCHEMISTRY, CLINICAL TOXICOLOGY, VIROLOGY, AND WATER AND WASTEWATER ANALYSIS. (BB)

AVAILABILITY: AMERICAN PUBLIC HEALTH ASSOC., INC., 1015 18TH STREET NW, WASHINGTON, D.C. 20036 ($40.00)

IRIS ACCESSION NUMBER: EW003749

PUBLICATION DATE: 77

TITLE: STRATEGY OF POLLUTION CONTROL.

PERSONAL AUTHOR: BERTHOUEX, P. MAC; RUDD, DALE F.

DESCRIPTOR: BIOLOGY; CHEMISTRY; ENERGY; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; INDUSTRY; *INSTRUCTIONAL MATERIALS; POLICY FORMATION; *POLLUTION; *SYSTEMS APPROACH; *TECHNOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 579P.

ABSTRACT: AS A BASIC TEXT IN ENVIRONMENTAL ENGINEERING THIS BOOK INTEGRATES PRINCIPLES APPLICABLE TO ALL AREAS OF ENVIRONMENTAL POLLUTION CONTROL. A REASONABLE AMOUNT OF TECHNICAL INFORMATION IS PROVIDED BUT THE BASIC DESIGN CONCEPTS ASSOCIATED WITH POLLUTION CONTROL SYSTEMS ARE STRESSED. THE FUNDAMENTAL PROBLEMS AND METHODS OF SOLUTION ARE PRESENTED IN CHAPTER 1. THE REMAINING CHAPTERS DEAL WITH MORE SPECIFIC AREAS, SUCH AS ANALYSIS OF MATERIAL AND ENERGY FLOW, USE OF INDUSTRIAL CHEMISTRY, PROCESSING WITH LIVING ORGANISMS, SEPARATION SYSTEMS, SYSTEMS INTEGRATION, AND POLICY STUDIES. (CS)

AVAILABILITY: JOHN WILEY & SONS, DEPT. 6043, ONE WILEY DR., SOMERSET, NJ 08875 ($19.95)

IRIS ACCESSION NUMBER: EW003750

PUBLICATION DATE: 78

TITLE: REMOTE SENSING: PRINCIPLES AND INTERPRETATION.

PERSONAL AUTHOR: SABINS, FLOYD F. JR.

DESCRIPTOR: *DIGITAL COMPUTERS; ENVIRONMENTAL INFLUENCES; *LAND USE; *NATURAL RESOURCES; *PHOTOGRAPHY; RADAR; RESEARCH; *TECHNOLOGY; *REMOTE SENSING

DESCRIPTIVE NOTE: 426P.

ABSTRACT: THIS BOOK DISCUSSES THE PHYSICAL PRINCIPLES THAT CONTROL REMOTE-SENSING PROCESSES AND THE PRACTICAL INTERPRETATION OF THE IMAGERY FOR A VARIETY OF APPLICATIONS. CHAPTER 1 SUMMARIZES THE FUNDAMENTAL CHARACTERISTICS OF ELECTROMAGNETIC RADIATION BASIC TO ALL FORMS OF REMOTE-SENSING SYSTEMS INCLUDING AERIAL PHOTOGRAPHY, MANNED SATELLITE IMAGERY, LANDSAT, THERMAL INFRARED, AND RADAR IMAGERY. EACH SYSTEM IS DISCUSSED IN FOUR SECTIONS: (1) THE PHYSICAL PROPERTIES AND ELECTROMAGNETIC INTERACTIONS THAT CONTROL THE PROCESS; (2) DESIGN AND OPERATION OF THE SYSTEM; (3) CHARACTERISTICS OF IMAGES; AND (4) GUIDELINES FOR INTERPRETATION. THE REMAINING CHAPTERS DESCRIBE PRACTICAL APPLICATIONS OF REMOTE-SENSING TO RESOURCE EXPLORATION, ENVIRONMENTAL MONITORING, RECOGNITION OF NATURAL HAZARDS, AND COMPARISON OF DIFFERENT TYPES OF IMAGES. (CS)

AVAILABILITY: W. W. FREEMAN AND CO., 660 MARKET ST., SAN FRANCISCO, CA 94104 ($25.00)

IRIS ACCESSION NUMBER: EW003751

ERIC ACCESSION NUMBER: ED162904

PUBLICATION DATE: MAR 77

TITLE: REVIEW OF SCIENTIFIC & TECHNICAL NUMERIC DATA BASE ACTIVITIES.

PERSONAL AUTHOR: WOOD, BARBARA L.

INSTITUTION CODE: BBB14260

SPONSORING AGENCY CODE: BBB01121

DESCRIPTOR: DATA; *DATA BASES; DATA COLLECTION; *INFORMATION SOURCES; *RESOURCES; SCIENCES; *SCIENTIFIC RESEARCH; *STATISTICS; TABLES (DATA)

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$10.03 PLUS POSTAGE.

DESCRIPTIVE NOTE: 176P.; CONTAINS OCCASIONAL MARGINAL LEGIBILITY

ISSUE: RIEAPR79

ABSTRACT: THIS EXAMINATION OF NUMERIC DATA BASE ACTIVITIES GREW OUT OF A CONTINUING EFFORT TO DEVELOP A SYSTEM OF STATISTICAL INDICATORS OF SCIENTIFIC AND TECHNICAL COMMUNICATION. A BROAD MIX OF DIRECTORIES, LISTING BY SUBJECT FIELD, REPORTS, MAIL INQUIRIES AND TELEPHONE AND FACE-TO-FACE INTERVIEWS WAS USED TO COLLECT INFORMATION. SCIENTIFIC AND TECHNICAL NUMERIC DATA BASES ARE IDENTIFIED AND DESCRIBED IN THE FOLLOWING FIELDS: PHYSICAL, ENVIRONMENTAL, LIFE AND SOCIAL SCIENCES. PRINCIPAL FEDERAL AGENCIES SUPPORTING THESE DATA BASE ACTIVITIES INCLUDE THE NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION, ENVIRONMENTAL PROTECTION AGENCY, NATIONAL CANCER INSTITUTE, ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION, NATIONAL SPACE SCIENCE DATA CENTER, UNITED STATES GEOLOGICAL SURVEY, NATIONAL STANDARD REFERENCE DATA SYSTEM, NATIONAL ARCHIVES AND RECORDS SERVICE, U.S. NAVAL OBSERVATORY, FEDERAL ENERGY ADMINISTRATION, AND ACTIVITIES ASSOCIATED WITH INFORMATION ANALYSIS CENTERS AND FEDERAL STATISTICAL PROGRAMS. THIS REPORT PROVIDES INFORMATION INDIVIDUALLY ABOUT SOME NUMERIC DATA BASES AND COLLECTIVELY ABOUT SOME GROUPS OF DATA BASES. THERE IS SOME INFORMATION ABOUT NON-NUMERIC ASPECTS OF DATA BASES WHICH ALSO CONTAIN NUMERIC DATA. THE INFORMATION COLLECTED ABOUT NUMERIC DATA BASES DIFFERS MARKEDLY FROM DATA BASE TO DATA BASE. FOR SOME DATA BASES, NUMBERS OF ITEMS IN THE FILE CAN BE QUOTED AND PERHAPS EVEN GROWTH RATES. FOR SOME DATA BASES, INFORMATION IS AVAILABLE CONCERNING DOLLAR COSTS, NUMBER OF USERS, OR NUMBER OF QUERIES. (AUTHOR/BB)

CONTRACT NUMBER: NSF-C-878

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), OPERATIONS DIVISION, SPRINGFIELD, VIRGINIA 22161 ($8.00)

INSTITUTION NAME: KING RESEARCH, INC., ROCKVILLE, MD.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C. DIV. OF SCIENCE INFORMATION.

IRIS ACCESSION NUMBER: EW003752

ERIC ACCESSION NUMBER: ED116974

PUBLICATION DATE: SEP 75

TITLE: PLANT OPERATIONS FOR WASTEWATER FACILITIES, VOL. II, PART E. AN INSTRUCTOR'S GUIDE FOR USE OF INSTRUCTIONAL MATERIAL IN WASTEWATER TECHNOLOGY TRAINING PROGRAMS.

PERSONAL AUTHOR: STOAKES, K. C.; AND OTHERS

INSTITUTION CODE: BBB06557; BBB12617; BBB12618

DESCRIPTOR: EDUCATIONAL OBJECTIVES; ENVIRONMENTAL EDUCATION; *POST SECONDARY EDUCATION; *TEACHING GUIDES; TECHNICAL EDUCATION; *TECHNOLOGY; VOCATIONAL EDUCATION; *WASTE DISPOSAL; WASTES; *WATER POLLUTION CONTROL; *SEWAGE TREATMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$4.43 PLUS POSTAGE

DESCRIPTIVE NOTE: 90P.; FOR RELATED DOCUMENTS, SEE SE 020 265-268

ISSUE: RIEMAY76

ABSTRACT: THIS INSTRUCTOR'S GUIDE, DESIGNED FOR USE WITH THE CURRICULUM, PLANT OPERATIONS FOR WASTEWATER FACILITIES, REPRESENTS A TWO-YEAR WASTEWATER TECHNOLOGY INSTRUCTIONAL PROGRAM BASED ON PERFORMANCE OBJECTIVES DESIGNED TO PREPARE UNDERGRADUATE STUDENTS TO ENTER OCCUPATIONS IN WATER AND WASTEWATER TREATMENT PLANT OPERATIONS AND MAINTENANCE. THIS DOCUMENT, PART E OF FIVE PARTS, COVERS THE TOPICS OF FLOW MEASUREMENT, PUMPING AND PIPING, ELECTRIC POWER AND GAS POWER. IN THIS GUIDE, THE TOPICS AND IDEAS ARE PRESENTED AS A SERIES OF MODULES, ORGANIZED AROUND 16 GENERAL OBJECTIVES COMMON TO ALL PROCESSES. THE MODULE BEGINS WITH A STATEMENT OF PURPOSE WHICH EXPLAINS WHAT THE STUDENT WILL BE STUDYING. NEXT, ALL THE OBJECTIVES OF THE MODULE AND CODE NUMBERS KEYED TO A COMPUTERIZED LIST OF INSTRUCTIONAL RESOURCES ARE LISTED. ALSO INCLUDED IN EACH MODULE ARE A GLOSSARY OF VERBS AND SECTIONS ON LEARNING AND TESTING CONDITIONS, ACCEPTABLE PERFORMANCE, INSTRUCTOR ACTIVITY AND STUDENT ACTIVITY. RECOMMENDATIONS ON EVALUATION TECHNIQUES ARE INCLUDED. (BT)

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.; ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. MUNICIPAL PERMITS AND OPERATIONS DIV.; LINN-BENTON COMMUNITY COLL., ALBANY, OREG. DEPT. OF ENVIRONMENTAL TECHNOLOGY.

IRIS ACCESSION NUMBER: EW003753

ERIC ACCESSION NUMBER: ED070578

PUBLICATION DATE: 70

TITLE: FLUID POWER, RATE TRAINING MANUAL.

INSTITUTION CODE: BBB06321

DESCRIPTOR: FORCE; *HYDRAULICS; INSTRUCTIONAL MATERIALS; *MECHANICAL EQUIPMENT; MILITARY PERSONNEL; *MILITARY SCIENCE; *MILITARY TRAINING; PHYSICS; *SUPPLEMENTARY TEXTBOOKS; TEXTBOOKS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$15.00 PLUS POSTAGE

DESCRIPTIVE NOTE: 305P.

ISSUE: RIEAPR73

ABSTRACT: FUNDAMENTALS OF HYDRAULICS AND PNEUMATICS ARE PRESENTED IN THIS MANUAL, PREPARED FOR REGULAR NAVY AND NAVAL RESERVE PERSONNEL WHO ARE SEEKING ADVANCEMENT TO PETTY OFFICER THIRD CLASS. THE HISTORY OF APPLICATIONS OF COMPRESSED FLUIDS IS DESCRIBED IN CONNECTION WITH PHYSICAL PRINCIPLES. SELECTION OF TYPES OF LIQUIDS AND GASES IS DISCUSSED WITH A BACKGROUND OF OPERATING TEMPERATURE RANGES, CONTAMINATION CONTROL TECHNIQUES, LUBRICATION ASPECTS, AND SAFETY PRECAUTIONS. COMPONENTS IN CLOSED- AND OPEN-CENTER

FLUID SYSTEMS ARE STUDIED IN EFFORTS TO FAMILIARIZE CIRCUIT DIAGRAMS. DETAILED DESCRIPTIONS ARE MADE FOR THE FUNCTIONS OF FLUIDLINES, CONNECTORS, SEALING DEVICES, WIPERS, BACKUP WASHERS, CONTAINERS, STRAINERS, FILTERS, ACCUMULATORS, PUMPS, AND COMPRESSORS. CONTROL AND MEASUREMENTS OF FLUID FLOW AND PRESSURE ARE ANALYZED IN TERMS OF DIFFERENT TYPES OF FLOWMETERS, PRESSURE GAGES, AND VALUES; AND METHODS OF DIRECTING FLOW AND CONVERTING POWER INTO MECHANICAL FORCE AND MOTION, IN TERMS OF DIRECTIONAL CONTROL VALVES, ACTUATING CYLINDERS, FLUID MOTORS, AIR TURBINES, AND TURBINE GOVERNORS. ALSO INCLUDED ARE STUDIES OF FLUIDICS, TROUBLE SHOOTING, HYDRAULIC POWER DRIVE, ELECTROHYDRAULIC STEERING, AND MISSILE AND AIRCRAFT FLUID POWER SYSTEMS. ILLUSTRATIONS FOR EXPLANATION USE AND A GLOSSARY OF GENERAL TERMS ARE INCLUDED IN THE APPENDIX. (CC)

REPORT NUMBER: NAVPERS-16193-B

INSTITUTION NAME: BUREAU OF NAVAL PERSONNEL, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003754

ERIC ACCESSION NUMBER: ED021082

PUBLICATION DATE: 31JAN66

TITLE: AUTOMOTIVE DIESEL MAINTENANCE 1, UNIT XI, PART I--MAINTAINING THE FUEL SYSTEM (PART I), CUMMINS DIESEL ENGINES, PART II--UNIT REPLACEMENT (ENGINE).

INSTITUTION CODE: RUF32655

DESCRIPTOR: ADULT VOCATIONAL EDUCATION; *AUTO MECHANICS (OCCUPATION); *DIESEL ENGINES; EQUIPMENT MAINTENANCE; INDIVIDUAL INSTRUCTION; INSTRUCTIONAL FILMS; MOTOR VEHICLES; PROGRAMED INSTRUCTION; PROGRAMED MATERIALS; *STUDY GUIDES; *TEACHING GUIDES; *TRADE AND INDUSTRIAL EDUCATION; TRANSPARENCIES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 50P.

ISSUE: CUMREPT

ABSTRACT: THIS MODULE OF A 30-MODULE COURSE IS DESIGNED TO DEVELOP AN UNDERSTANDING OF DIFFERENCES BETWEEN TWO AND FOUR CYCLE ENGINES, THE OPERATION AND MAINTENANCE OF THE DIESEL ENGINE FUEL SYSTEM, AND THE PROCEDURES FOR DIESEL ENGINE REMOVAL. TOPICS ARE (1) REVIEW OF TWO CYCLE AND FOUR CYCLE CONCEPT, (2) SOME BASIC CHARACTERISTICS OF FOUR CYCLE ENGINES, (3) THE CUMMINS FUEL SYSTEM, (4) PREPARATION FOR REMOVAL, AND (5) UNIT REMOVAL. THE MODULE CONSISTS OF A SELF-INSTRUCTIONAL BRANCH PROGRAMED TRAINING FILM "UNDERSTANDING BASIC HYDRAULICS IN RELATION TO CUMMINS FUEL PUMPS" AND OTHER MATERIALS. SEE VT 005 655 FOR FURTHER INFORMATION. MODULES IN THIS SERIES ARE AVAILABLE AS VT 005 655 - VT 005 684. MODULES FOR "AUTOMOTIVE DIESEL MAINTENANCE 2" ARE AVAILABLE AS VT 005 685 - VT 005 709. THE 2-YEAR PROGRAM OUTLINE FOR "AUTOMOTIVE DIESEL MAINTENANCE 1 AND 2" IS AVAILABLE AS VT 006 006. THE TEXT MATERIAL, TRANSPARENCIES, PROGRAMED TRAINING FILM, AND THE ELECTRONIC TUTOR MAY BE RENTED (FOR $1.75 PER WEEK) OR PURCHASED FROM THE HUMAN ENGINEERING INSTITUTE, HEADQUARTERS AND DEVELOPMENT CENTER, 2341 CARNEGIE AVENUE, CLEVELAND, OHIO 44115. (HC)

REPORT NUMBER: AM-1-11

INSTITUTION NAME: HUMAN ENGINEERING INST., CLEVELAND, OHIO.

IRIS ACCESSION NUMBER: EW003755

ERIC ACCESSION NUMBER: ED021083

PUBLICATION DATE: 24FEB66

TITLE: AUTOMOTIVE DIESEL MAINTENANCE L, UNIT XII, PART I--MAINTAINING THE FUEL SYSTEM (PART II), CUMMINS DIESEL ENGINE, PART II--UNIT INSTALLATION (ENGINE).

INSTITUTION CODE: RUF32655

DESCRIPTOR: ADULT VOCATIONAL EDUCATION; *AUTO MECHANICS (OCCUPATION); *DIESEL ENGINES; EQUIPMENT MAINTENANCE; INDIVIDUAL INSTRUCTION; INSTRUCTIONAL FILMS; MOTOR VEHICLES; PROGRAMED INSTRUCTION; PROGRAMED MATERIALS; *STUDY GUIDES; *TEACHING GUIDES; *TRADE AND INDUSTRIAL EDUCATION; TRANSPARENCIES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 38P.

ISSUE: CUMREPT

ABSTRACT: THIS MODULE OF A 30-MODULE COURSE IS DESIGNED TO DEVELOP AN UNDERSTANDING OF THE OPERATION AND MAINTENANCE OF THE DIESEL ENGINE FUEL SYSTEM AND THE PROCEDURES FOR DIESEL ENGINE INSTALLATION. TOPICS ARE FUEL FLOW CHARACTERISTICS, PTG FUEL PUMP, PREPARATION FOR INSTALLATION, AND INSTALLING ENGINE. THE MODULE CONSISTS OF A SELF-INSTRUCTIONAL BRANCH PROGRAMED TRAINING FILM "PRINCIPLES OF TORCH CUTTING" AND OTHER MATERIALS. SEE VT 005 655 FOR FURTHER INFORMATION. MODULES IN THIS SERIES ARE AVAILABLE AS VY 005 655 - VT 005 684. MODULES FOR "AUTOMOTIVE DIESEL MAINTENANCE 2" ARE AVAILABLE AS VT 005 685 - VT 005 709. THE 2-YEAR PROGRAM OUTLINE FOR "AUTOMOTIVE DIESEL MAINTENANCE 1 AND 2" IS AVAILABLE AS VT 006 006. THE NEXT MATERIAL, TRANSPARENCIES, PROGRAMED TRAINING FILM, AND THE ELECTRONIC TUTOR MAY BE RENTED (FOR $1.75 PER WEEK) OR PURCHASED FROM THE HUMAN ENGINEERING INSTITUTE, HEADQUARTERS AND DEVELOPMENT CENTER, 2341 CARNEGIE AVENUE, CLEVELAND, OHIO 44115. (HC)

REPORT NUMBER: AM-1-12

INSTITUTION NAME: HUMAN ENGINEERING INST., CLEVELAND, OHIO.

IRIS ACCESSION NUMBER: EW003756

ERIC ACCESSION NUMBER: ED021084

PUBLICATION DATE: 15MAR66

TITLE: AUTOMOTIVE DIESEL MAINTENANCE 1, UNIT XIII, I-MAINTAINING THE FUEL SYSTEM (PART III), CUMMINS DIESE ENGINES, II--RADIATOR SHUTTER SYSTEM.

INSTITUTION CODE: RUF32655

DESCRIPTOR: ADULT VOCATIONAL EDUCATION; *AUTO MECHANIC (OCCUPATION); *DIESEL ENGINES; EQUIPMENT MAINTENANCE INDIVIDUAL INSTRUCTION; INSTRUCTIONAL FILMS; MOTOR VEHICLES PROGRAMED INSTRUCTION; PROGRAMED MATERIALS; *STUDY GUIDES *TEACHING GUIDES; *TRADE AND INDUSTRIAL EDUCATION TRANSPARENCIES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$3.15 PLUS POSTAGE

DESCRIPTIVE NOTE: 58P.

ISSUE: CUMREPT

ABSTRACT: THIS MODULE OF A 30-MODULE COURSE IS DESIGNED T DEVELOP AN UNDERSTANDING OF THE CONSTRUCTION, OPERATION, AN MAINTENANCE OF THE DIESEL ENGINE FUEL AND RADIATOR SHUTTE SYSTEMS. TOPICS ARE (1) MORE ABOUT THE CUMMINS FUEL SYSTEM (2) CALIBRATING THE PT FUEL PUMP, (3) CALIBRATING THE FUE INJECTORS, (4) UNDERSTANDING THE SHUTTER SYSTEM, (5) TH SHUTTER, (6) SHUTTER CONTROL CYLINDER, AND (7) SHUTTE CONTROL VALVE. THE MODULE CONSISTS OF A SELF-INSTRUCTIONA BRANCH PROGRAMED TRAINING FILM "OPERATION OF THE CUMMINS P FUEL SYSTEM COMPONENTS" AND OTHER MATERIALS. SEE VT 005 65 FOR FURTHER INFORMATION. MODULES IN THIS SERIES AR AVAILABLE AS VT 005 655 - VT 005 684. MODULES FOR AUTOMOTIV DIESEL MAINTENANCE 2" ARE AVAILABLE AS VT 005 685 - VT 00 709. THE 2-YEAR PROGRAM OUTLINE FOR "AUTOMOTIVE DIESE MAINTENANCE 1 AND 2" IS AVAILABLE AS VT 006 006. THE TEX MATERIAL, TRANSPARENCIES, PROGRAMED TRAINING FILM, AND TH ELECTRONIC TUTOR MAY BE RENTED (FOR $1.75 PER WEEK) O PURCHASED FROM THE HUMAN ENGINEERING INSTITUTE, HEADQUARTER AND DEVELOPMENT CENTER, 2341 CARNEGIE AVENUE, CLEVELAND OHIO 44115. (HC)

REPORT NUMBER: AM-1-13

INSTITUTION NAME: HUMAN ENGINEERING INST., CLEVELAND, OHIO.

IRIS ACCESSION NUMBER: EW003757

ERIC ACCESSION NUMBER: ED021104

PUBLICATION DATE: 30MAR67

TITLE: AUTOMOTIVE DIESEL MAINTENANCE 2 UNIT IV, AUTOMATIC TRANSMISSIONS--HYDRAULICS (PART II).

INSTITUTION CODE: RUF32655

DESCRIPTOR: ADULT VOCATIONAL EDUCATION; *AUTO MECHANICS (OCCUPATION); DIESEL ENGINES; EQUIPMENT MAINTENANCE; *HYDRAULICS; INDIVIDUAL INSTRUCTION; INSTRUCTIONAL FILMS; KINETICS; MOTOR VEHICLES; PROGRAMED INSTRUCTION; PROGRAMED MATERIALS; *STUDY GUIDES; *TEACHING GUIDES; *TRADE AND INDUSTRIAL EDUCATION; TRANSPARENCIES

EDRS PRICE: EDRS PRICE MF-$0.75 HCP$2.12 PLUS POSTAGE

DESCRIPTIVE NOTE: 51P.

ISSUE: CUMREPT

ABSTRACT: THIS MODULE OF A 25-MODULE COURSE IS DESIGNED TO DEVELOP AN UNDERSTANDING OF THE OPERATION AND MAINTENANCE OF VALVES UTILIZED IN HYDRAULIC TRANSMISSIONS USED ON DIESEL POWERED VEHICLES. TOPICS ARE (1) REVIEWING FACTS ABOUT PUMPS, (2) USING VALVES FOR CONTROL, (3) TROUBLESHOOTING PROCEDURES ON RELIEF VALVES, (4) USING DIRECTIONAL CONTROL VALVES, AND (5) FLOW CONTROL VALVES. THE MODULE CONSISTS OF A SELF-INSTRUCTIONAL PROGRAMED TRAINING FILM "UNDERSTANDIN DIRECTIONAL CONTROL VALVES" AND OTHER MATERIALS. SEE VT 005 685 FOR FURTHER INFORMATION. MODULES IN THIS SERIES ARE AVAILABLE AS VT 005 685 - VT 005 709. MODULES FOR "AUTOMOTIVE DIESEL MAINTENANCE 1" ARE AVAILABLE AS VT 005 655 - VT 005 684. THE 2-YEAR PROGRAM OUTLINE FOR "AUTOMOTIVE DIESEL MAINTENANCE 1 AND 2" IS AVAILABLE AS VT 006 006. THE TEXT MATERIAL, TRANSPARENCIES, PROGRAMED TRAINING FILM, AND THE ELECTRONIC TUTOR MAY BE RENTED (FOR $1.75 PER WEEK) OF PURCHASED FROM THE HUMAN ENGINEERING INSTITUTE, HEADQUARTER AND DEVELOPMENT CENTER, 2341 CARNEGIE AVENUE, CLEVELAND, OHIO 44115. (HC)

REPORT NUMBER: AM-2-4

INSTITUTION NAME: HUMAN ENGINEERING INST., CLEVELAND, OHIO.

IRIS ACCESSION NUMBER: EW003758

ERIC ACCESSION NUMBER: ED021090

PUBLICATION DATE: 19JUL66

TITLE: AUTOMOTIVE DIESEL MAINTENANCE 1, UNIT XIX, I--ENGINE TUNE-UP--CUMMINS DIESEL ENGINE, II--FRONT END SUSPENSION AND AXLES.

INSTITUTION CODE: NSD52685; RUF32655

DESCRIPTOR: ADULT VOCATIONAL EDUCATION; *AUTO MECHANICS (OCCUPATION); *DIESEL ENGINES; EQUIPMENT MAINTENANCE; INDIVIDUAL INSTRUCTION; INSTRUCTIONAL FILMS; MOTOR VEHICLES; PROGRAMED INSTRUCTION; PROGRAMED MATERIALS; *STUDY GUIDES; *TEACHING GUIDES; *TRADE AND INDUSTRIAL EDUCATION; TRANSPARENCIES

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE

DESCRIPTIVE NOTE: 34P.

ISSUE: CUMREPT

ABSTRACT: THIS MODULE OF A 30-MODULE COURSE IS DESIGNED TO

EVELOP AN UNDERSTANDING OF DIESEL ENGINE TUNE-UP PROCEDURES NO THE DESIGN OF FRONT END SUSPENSION AND AXLES USED ON IESEL ENGINE EQUIPMENT. TOPICS ARE (1) PRE-TUNE-UP CHECKS, 2) TIMING THE ENGINE, (3) INJECTOR PLUNGER AND VALVE DJUSTMENTS, (4) FUEL PUMP ADJUSTMENTS ON THE ENGINE (PTR ND PTG), (5) HISTORY OF FRONT AXLES, AND (6) AXLE LOADS. HE MODULE CONSISTS OF A SELF-INSTRUCTIONAL BRANCH PROGRAMED RAINING FILM "PRINCIPLES OF TUNE-UP--CUMMINS DIESEL ENGINE" ND OTHER MATERIALS. SEE VT 005 655 FOR FURTHER INFORMATION. ODULES IN THIS SERIES ARE AVAILABLE AS VT 005 655 - VT 005 84. MODULES FOR "AUTOMOTIVE DIESEL MAINTENANCE 2" ARE VAILABLE AS VT 005 685 - VT 005 709. THE 2-YEAR PROGRAM UTLINE FOR "AUTOMOTIVE DIESEL MAINTENANCE I AND 2" IS VAILABLE AS VT 006 006. THE TEXT MATERIAL, TRANSPARENCIES, ROGRAMED TRAINING FILM, AND THE ELECTRONIC TUTOR MAY BE ENTED (FOR $1.75 PER WEEK) OR PURCHASED FROM THE HUMAN NGINEERING INSTITUTE, HEADQUARTERS AND DEVELOPMENT CENTER, 341 CARNEGIE AVENUE, CLEVELAND, OHIO 44115. (HC)

EPORT NUMBER: AM-1-19

NSTITUTION NAME: HUMAN ENGINEERING INST., CLEVELAND, HIO.; MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL. OCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003759

RIC ACCESSION NUMBER: ED059298

UBLICATION DATE: NOV 54

ITLE: ELECTRIC MOTOR ASSEMBLER 6-99.166 -- TECHNICAL EPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST ATTERY.

INSTITUTION CODE: BBB02819

DESCRIPTOR: *APTITUDE TESTS; ASSEMBLY (MANUFACTURING); ELECTRIC MOTORS; EVALUATION CRITERIA; JOB APPLICANTS; *JOB KILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; EST RELIABILITY; TEST VALIDITY; ELECTRIC MOTOR ASSEMBLER; ATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEMAY72

BSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE ENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-21

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

IRIS ACCESSION NUMBER: EW003760

ERIC ACCESSION NUMBER: ED059384

PUBLICATION DATE: SEP 69

TITLE: CURRICULUM GUIDE FOR ELECTRICITY-ELECTRONICS.

INSTITUTION CODE: BBB03717

DESCRIPTOR: BEHAVIORAL OBJECTIVES; *CAREER EDUCATION; CLUSTER ANALYSIS; COMMUNICATIONS; *CURRICULUM GUIDES; ELECTRICAL APPLIANCE SERVICEMEN; ELECTRICAL OCCUPATIONS; ELECTRIC CIRCUITS; ELECTRICIANS; *ELECTRICITY; ELECTROMECHANICAL TECHNOLOGY; *ELECTRONICS; LEARNING ACTIVITIES; *OCCUPATIONAL CLUSTERS; OCCUPATIONAL GUIDANCE; OCCUPATIONAL INFORMATION; REFERENCE MATERIALS; SAFETY EDUCATION; SECONDARY EDUCATION; THE OREGON WAY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 142P.

ISSUE: RIEMAY72

ABSTRACT: DEVELOPED THROUGH A COOPERATIVE EFFORT BY INDUSTRY AND EDUCATION, THIS CURRICULUM GUIDE OUTLINES THE BASIC SKILLS AND KNOWLEDGE NECESSARY FOR ENTRY-LEVEL COMPETENCIES IN THE BROAD FIELD OF ELECTRICITY-ELECTRONICS, OR FOR ENTRANCE INTO AN APPRENTICESHIP, POST-HIGH SCHOOL, OR UNIVERSITY PROGRAM. THIS GUIDE IS ONE OF SEVERAL DEVELOPED FOR OREGON'S NEW APPROACH TO SECONDARY EDUCATION CALLED "THE OREGON WAY." THE PROGRAM IS BASED ON THE ASSUMPTIONS THAT SECONDARY SCHOOLS SHOULD BE PREPARATORY FOR ALL STUDENTS, AND THAT A PREPARATORY PROGRAM TIES THE CURRICULUM TO THE LIVES OF STUDENTS. AS A RESULT OF ANALYZING OVER 350 SEPARATE OCCUPATIONS, FIVE KEY CLUSTERS FOR ELECTRICITY-ELECTRONICS WERE DERIVED: (1) ELECTRONIC ASSEMBLER, (2) ELECTRICAL REPAIRMAN, (3) ELECTRICAL APPLIANCE SERVICEMAN, (4) ELECTRONICS TECHNICIAN, AND (5) ELECTRICIAN. FOLLOWING THE OCCUPATIONAL AND INSTRUCTIONAL DATA AND CURRICULUM SUGGESTIONS, COURSE OUTLINES ARE PROVIDED FOR: (1) CIRCUITRY FUNDAMENTALS, (2) ELECTROMECHANICS, AND (3) COMMUNICATIONS. REQUIRED KNOWLEDGE, BEHAVIORAL OBJECTIVES, AND SUGGESTED LEARNING ACTIVITIES ARE GIVEN FOR EACH UNIT. INFORMATION RELATED TO SAFETY AND MAINTENANCE, AND A LIST OF SUGGESTED EQUIPMENT AND FACILITIES ARE APPENDED. (GEB)

AVAILABILITY: OREGON BOARD OF EDUCATION, 942 LANCASTER DRIVE, NE, SALEM, OREGON 97310 ($2.50)

INSTITUTION NAME: OREGON STATE BOARD OF EDUCATION, SALEM. DIV. OF COMMUNITY COLLEGES AND CAREER EDUCATION.

IRIS ACCESSION NUMBER: EW003761

ERIC ACCESSION NUMBER: ED082028

PUBLICATION DATE: 73

TITLE: EQUIPMENT OPERATOR 3 AND 2. NAVTRA 10640-G. RATE TRAINING MANUAL.

INSTITUTION CODE: BBB03568; BBB06320

DESCRIPTOR: *CONSTRUCTION (PROCESS); *EQUIPMENT; *JOB TRAINING; *MANUALS; *MILITARY PERSONNEL; SKILLED OCCUPATIONS; VOCATIONAL EDUCATION; *EQUIPMENT OPERATOR

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$22.20 PLUS POSTAGE

DESCRIPTIVE NOTE: 473P.; REVISED EDITION

ISSUE: RIEFEB74

ABSTRACT: A GUIDE FOR ADVANCEMENT AND TRAINING IN THE EQUIPMENT OPERATOR 3 AND 2 RATINGS FOR NAVY PERSONNEL IS PROVIDED IN THIS MANUAL. THE CHAPTERS OUTLINE THE DUTIES AND RESPONSIBILITIES OF THE EQUIPMENT OPERATORS INVOLVED WITH ENGINES, FUELS, LUBRICANTS, POLLUTION CONTROL, AUTOMOTIVE POWER TRAINS AND CHASSIS, AUTOMOTIVE VEHICLES, MATERIALS-HANDLING EQUIPMENT, CONSTRUCTION AND MAINTENANCE EQUIPMENT, EARTHWORK, TRACTORS AND ATTACHMENTS, FRONT-END LOADERS, POWER CRANES AND ATTACHMENTS, MOTOR GRADERS, SCRAPERS, ROLLERS, DITCHERS, EARTH AUGERS, AIR COMPRESSORS, ROCK DRILLS, PAVING EQUIPMENT AND OPERATIONS, HANDLING AND HAULING EXPLOSIVES, AND ADMINISTRATION. THERE ARE EXTENSIVE DIAGRAMS, DRAWINGS, AND PHOTOGRAPHS TOGETHER WITH AN APPENDIX CONTAINING EQUIPMENT OPERATOR HAND SIGNALS. (KP)

REPORT NUMBER: NAVTRA-10640-G

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 0502-053-2010)

INSTITUTION NAME: BUREAU OF NAVAL PERSONNEL, WASHINGTON, D.C.; NAVAL PERSONNEL PROGRAM SUPPORT ACTIVITY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003762

ERIC ACCESSION NUMBER: ED085548

PUBLICATION DATE: JAN 73

TITLE: GEOMETRY: CAREER RELATED UNITS. TEACHER'S EDITION.

PERSONAL AUTHOR: PIERRO, MIKE; AND OTHERS

INSTITUTION CODE: NSD36594; NSD52685

DESCRIPTOR: *CAREER EDUCATION; *CURRICULUM ENRICHMENT; *GEOMETRY; *HIGH SCHOOL STUDENTS; RESOURCE UNITS; SENIOR HIGH SCHOOLS; *UNIT PLAN

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$12.60 PLUS POSTAGE

DESCRIPTIVE NOTE: 270P.

ISSUE: RIEMAY74

ABSTRACT: USING SIX GEOMETRY UNITS AS RESOURCE UNITS, THE DOCUMENT EXPLORES 22 MATH-RELATED CAREERS. THE AUTHORS INTEND THE DOCUMENT TO PROVIDE SENIOR HIGH SCHOOL STUDENTS WITH CAREER ORIENTATION AND EXPLORATION EXPERIENCES WHILE THEY LEARN GEOMETRY SKILLS. THE UNITS ARE TO BE CONSIDERED AS A PART OF A GEOMETRY COURSE, NOT A COURSE BY THEMSELVES. THE SIX GEOMETRY UNITS (RIGHT TRIANGLES AND THE PYTHOGOREAN THEOREM, POLYGONS AND THEIR AREAS, PARALLEL LINES, STANDARD CONSTRUCTIONS, VOLUME, AND CIRCLE RELATIONSHIPS) MAY EITHER BE STUDIED FIRST OR USED AS RESOURCE UNITS AS THE STUDENT WORKS IN ANY OF THE CAREER UNITS: PRINTING AND THE GRAPHIC ARTS, HEAVY EQUIPMENT OPERATOR, FASHION AND APPAREL DESIGN, NAVIGATION, PAINTING AND PAPERHANGING, LANDSCAPE TECHNOLOGY, CARPENTER, ARCHITECTURE AND DRAFTING, OPTICAL TECHNICIAN, SHEET METAL, ENGINEERING, MACHINIST, CEMENT WORKERS, FORESTRY, ELECTRICIAN, GENERAL CONTRACTOR, HOME PLANNING, CABINETMAKING, PLUMBING AND PIPE FITTING, SURVEYOR, OUTDOOR ADVERTISING, AND SPACE. THE TEACHER'S EDITION CONTAINS AN ANSWER KEY. (AG)

INSTITUTION NAME: MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL. DIV. OF VOCATIONAL AND TECHNICAL EDUCATION.; ROBBINSDALE INDEPENDENT SCHOOL DISTRICT 281, MINN.

IRIS ACCESSION NUMBER: EW003763

ERIC ACCESSION NUMBER: ED106658

PUBLICATION DATE: 74

TITLE: MACHINIST'S MATE 1 AND C: RATE TRAINING MANUAL.

INSTITUTION CODE: BBB08861

DESCRIPTOR: AIR CONDITIONING EQUIPMENT; EQUIPMENT MAINTENANCE; INSTRUCTIONAL MATERIALS; *JOB TRAINING; *MACHINE REPAIRMEN; *MANUALS; *MECHANICAL EQUIPMENT; MILITARY TRAINING; *SEAMEN; TECHNICAL EDUCATION; TECHNICAL OCCUPATIONS; TRADE AND INDUSTRIAL EDUCATION; VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$10.78 PLUS POSTAGE

DESCRIPTIVE NOTE: 213P.

ISSUE: RIEOCT75

ABSTRACT: THE RATE TRAINING MANUAL COVERS THE DUTIES REQUIRED TO EFFICIENTLY OPERATE AND MAINTAIN SHIP PROPULSION

MACHINERY AND ASSOCIATED EQUIPMENT AND TO MAINTAIN APPLICABLE RECORDS AND REPORTS. CHAPTERS COVER: TURBINES; REDUCTION GEARS; STEAM-DRIVEN GENERATORS; HEAT EXCHANGERS AND AIR EJECTORS; PUMPS; PIPING AND VALVES; DISTILLING PLANTS; REFRIGERATION AND AIR CONDITIONING; AUXILIARY EQUIPMENT; ADMINISTRATION, SUPERVISION, AND TRAINING; PROPULSION PLANT EFFICIENCY; ENGINEERING CASUALTY CONTROL; INSPECTIONS AND TRIALS; SHIP REPAIR; AND RECORDS AND REPORTS. A FOUR-PAGE INDEX IS INCLUDED. (AUTHOR/JR)

REPORT NUMBER: NAVEDTRA 10525-D

INSTITUTION NAME: NAVAL TRAINING COMMAND, PENSACOLA, FLA.

IRIS ACCESSION NUMBER: EW003764

ERIC ACCESSION NUMBER: ED107843

PUBLICATION DATE: 74

TITLE: NATIONAL APPRENTICESHIP STANDARDS FOR PLUMBING AND STEAMFITTING--PIPEFITTING.

INSTITUTION CODE: FGK45111

DESCRIPTOR: *APPRENTICESHIPS; BUILDING TRADES; *PLUMBING; *STANDARDS; *VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$1.58 PLUS POSTAGE

DESCRIPTIVE NOTE: 24P.

ISSUE: RIENOV75

ABSTRACT: THE BOOKLET PRESENTS NATIONAL APPRENTICESHIP STANDARDS FOR PLUMBING AND STEAMFITTING--PIPEFITTING DEVELOPED BY THE NATIONAL JOINT PLUMBING APPRENTICESHIP AND JOURNEYMAN TRAINING COMMITTEE AND THE NATIONAL JOINT STEAMFITTER-PIPEFITTER APPRENTICESHIP COMMITTEE, TOGETHER WITH THE DEPARTMENT OF LABOR. THE STANDARDS COVER: A DEFINITION OF A LOCAL JOINT APPRENTICESHIP AND TRAINING COMMITTEE, REGISTRATION OF LOCAL APPRENTICE STANDARDS, DEFINITIONS OF APPRENTICE AND SENIOR APPRENTICE, QUALIFICATIONS OF APPLICANTS FOR APPRENTICESHIP, AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY, GENERAL APPRENTICE APPLICATION PROCEDURES, APPRENTICESHIP AGREEMENT, TERM OF APPRENTICESHIP, PROBATIONARY PERIOD, CREDIT FOR PREVIOUS EXPERIENCE, RELATED INSTRUCTION FOR APPRENTICES AND SENIOR APPRENTICES, WORK EXPERIENCE, HOURS OF WORK FOR APPRENTICES AND SENIOR APPRENTICES, APPRENTICE AND SENIOR APPRENTICE WAGES AND ADVANCEMENT, SUPERVISION OF APPRENTICES, RESPONSIBILITIES OF APPRENTICES AND SENIOR APPRENTICES, DISCIPLINARY ACTION, ADJUSTING DIFFERENCES, CERTIFICATE OF COMPLETION OF TRAINING, RATIO OF JOURNEYMEN TO APPRENTICES, ACCIDENT PREVENTION, QUALIFICATION OF EMPLOYERS, AND COOPERATING ORGANIZATIONS AND AGENCIES. ADDRESS LISTS FOR THE BUREAU OF APPRENTICESHIP AND TRAINING REGIONAL OFFICES AND STATE AND TERRITORIAL APPRENTICESHIP AGENCIES ARE APPENDED. (NH)

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. BUREAU OF APPRENTICESHIP AND TRAINING.

IRIS ACCESSION NUMBER: EW003765

ERIC ACCESSION NUMBER: ED109433

PUBLICATION DATE: 71

TITLE: ELECTRONICS TECHNOLOGY CURRICULUM DEVELOPMENT PROJECT (ETCDP): REPORT.

INSTITUTION CODE: JIM35100

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: AUDIOVISUAL AIDS; COMPUTER ASSISTED INSTRUCTION; COMPUTER SCIENCE; *CURRICULUM DEVELOPMENT; *CURRICULUM GUIDES; *ELECTRIC CIRCUITS; ELECTROMECHANICAL TECHNOLOGY; ELECTRONIC EQUIPMENT; *ELECTRONICS; ELECTRONIC TECHNICIANS; ENGINEERING TECHNOLOGY; INDIVIDUALIZED INSTRUCTION; INSTRUCTIONAL MATERIALS; INSTRUCTIONAL TECHNOLOGY; PERFORMANCE CRITERIA; POST SECONDARY EDUCATION; TEACHING METHODS; *TECHNICAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$20.94 PLUS POSTAGE

DESCRIPTIVE NOTE: 410P.

ISSUE: RIEDEC75

ABSTRACT: THE REPORT DESCRIBES IN DETAIL THE ELECTRONICS TECHNOLOGY CURRICULUM DEVELOPMENT PROJECT, A TWO-YEAR ELECTRONICS TECHNOLOGY PROGRAM WITH SIX CORE COURSES (THREE IN CIRCUIT ANALYSIS AND THREE IN FUNDAMENTALS OF ELECTRONICS) AND AN INTRODUCTION TO ELECTRONICS TECHNOLOGY COURSE. TWO CHAPTERS PRESENT THE OPERATION, SCOPE, AND OBJECTIVES OF THE PROJECT AND INCLUDE DISCUSSIONS OF THE CURRICULUM STRUCTURE AND ITS SUPPORTING PHILOSOPHY. THREE CHAPTERS (140 DOUBLE-COLUMN PAGES) COMPRISE A CURRICULUM GUIDE FOR THE SEVEN COURSES. THREE MORE CHAPTERS (100 PAGES) DEAL WITH INSTRUCTIONAL METHODS AND MATERIALS, INCLUDING THE USE OF MEDIA, AUDIO-TUTORIAL INSTRUCTION, AND THE USE OF COMPUTERS AND CALCULATORS. THERE IS A CHAPTER ON FACILITIES, INSTRUMENTS, AND EQUIPMENT PROVIDING PRICE RANGES, MINIMUM SPECIFICATIONS, AND GUIDELINES FOR SELECTION. A CHAPTER OF SUGGESTIONS AND RECOMMENDATIONS TREATS: ADAPTING THE CURRICULUM TO A FOUR-SEMESTER INSTEAD OF SIX-QUARTER PROGRAM; EXPECTED LEVEL OF STUDENT PERFORMANCE; AND MISCELLANEOUS SUGGESTIONS ARISING FROM THE PROJECT. APPENDIXES PROVIDE INFORMATION ON: RELEVANT CONFERENCES; SOURCES OF AUDIO-VISUAL INSTRUCTIONAL MATERIALS; AND SUGGESTED TEXTS. (PR)

REPORT NUMBER: NSF-GY-6182

INSTITUTION NAME: ILLINOIS UNIV., URBANA.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003766

ERIC ACCESSION NUMBER: ED110703

PUBLICATION DATE: 74

TITLE: ELECTRICIAN'S MATE 3 & 2: RATE TRAINING MANUAL.

INSTITUTION CODE: BBB11649

DESCRIPTOR: COURSE CONTENT; *ELECTRICAL SYSTEMS; ELECTRI CIRCUITS; *ELECTRICIANS; ELECTRIC MOTORS; ELECTRONI EQUIPMENT; ELECTRONICS; EQUIPMENT MAINTENANCE *INSTRUCTIONAL MATERIALS; *JOB TRAINING; LIGHTING; *MANUALS MILITARY TRAINING; SAFETY

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$23.48 PLUS POSTAGE

DESCRIPTIVE NOTE: 467P.

ISSUE: RIEJAN76

ABSTRACT: THE TRAINING MANUAL PROVIDES INFORMATION RELATE TO THE TASKS ASSIGNED TO THE ELECTRICIAN'S MATE THIRD AN SECOND CLASS WHO OPERATE AND MAINTAIN POWER AND LIGHTIN SYSTEMS AND ASSOCIATED EQUIPMENT. INDIVIDUAL CHAPTERS DEA WITH: CAREER CHALLENGES FOR THE ELECTRICIAN'S MATE, SAFET PRECAUTIONS, TEST EQUIPMENT, ELECTRICAL INSTALLATIONS, A-POWER DISTRIBUTION SYSTEMS, D-C POWER DISTRIBUTION SYSTEMS MOTOR CONTROLLERS, MAINTENANCE AND REPAIR OF MOTORS AN GENERATORS, SHIPBOARD LIGHTING, DEGAUSSING, ELECTRICA PROPULSION AND CONTROLS, CENTRAL OPERATIONS SYSTEM, BASI ELECTRONIC COMPONENTS AND CIRCUITS, LOGIC SYSTEMS ELECTRICAL AUXILIARIES, AND SOUND MOTION PICTURE SYSTEMS THERE IS AN APPENDIX OF ELECTRONICS SYMBOLS AND AN INDEX THE MANUAL IS EXTENSIVELY ILLUSTRATED WITH DIAGRAMS AN PHOTOGRAPHS. (PR)

REPORT NUMBER: NAVEDTRA-10546-D

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMEN PRINTING OFFICE, WASHINGTON, D. C. 20402 (STOCK NO. 0502-LP 052-7310)

INSTITUTION NAME: NAVAL EDUCATION AND TRAINING COMMAND PENSACOLA, FLA.

IRIS ACCESSION NUMBER: EW003767

ERIC ACCESSION NUMBER: ED110736

PROGRAM AREA: 95

PUBLICATION DATE: 30 DEC 74

TITLE: AN ANALYSIS OF THE WASTE WATER TREATMENT OPERATOI OCCUPATION.

PERSONAL AUTHOR: CLARK, ANTHONY B.; AND OTHERS

INSTITUTION CODE: BBB11941; RUF67055

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; JO SKILLS; MACHINE REPAIRMEN; *OCCUPATIONAL INFORMATION; POS SECONDARY EDUCATION; TASK ANALYSIS; TASK PERFORMANCE; TRADI AND INDUSTRIAL EDUCATION; *WASTES; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT OPERATOR; *OPERATIONS (WASTEWATER); WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.76 HC-$6.97 PLUS POSTAGE

DESCRIPTIVE NOTE: 129P.; FOR RELATED DOCUMENTS, SEE CE 004 160-206, CE 004 263-268, CE 004 425-427, AND CE 004 539-540

ISSUE: RIEJAN76

ABSTRACT: THE OCCUPATIONAL ANALYSIS CONTAINS A BRIEF JOE DESCRIPTION FOR THE WASTE WATER TREATMENT OCCUPATIONS OF OPERATOR AND MAINTENANCE MECHANIC AND 13 DETAILED TASK STATEMENTS WHICH SPECIFY JOB DUTIES (TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON, PERFORMANCE KNOWLEDGE, SAFETY CONSIDERATIONS/HAZARDS, DECISIONS, CUES, AND ERRORS) AND LEARNING SKILLS (SCIENCE, MATHEMATICS/NUMBER SYSTEMS, AND COMMUNICATIONS). THE 13 TASK STATEMENTS COVER THE FOLLOWING PERFORMANCE DUTIES: SCREENING AND COMMINUTING, GRIT REMOVAL, PUMPING, FLOW MEASUREMENT, PRETREATMENT BY CHEMICAL ADDITION, COAGULATION AND FLOCCULATION, SEDIMENTATION AND PRIMARY AND SECONDARY SOLIDS REMOVAL, SLUDGE WASTING AND DIGESTION, BIOLOGICAL DECOMPOSITION THROUGH SLUDGE PROCESS (CONTACT STABILIZATION, STEP AERATION, CONVENTIONAL ACTIVATED SLUDGE, AND EXTENDED AERATION), BIOLOGICAL DECOMPOSITION THROUGH TRICKLING FILTERS, BIOLOGICAL DECOMPOSITION THROUGH OXIDATION LAGOONS/PONDS (FLUCCULATIVE, AEROBIC, AND ANAEROBIC), CHLORINATION, AND OUTFALL EVALUATION. THE ANALYSIS ALSO INCLUDES AN APPENDIX CONTAINING BEHAVIORAL SCIENCE OBJECTIVES, A LIST OF TOOLS NEEDED TO PERFORM EACH OF THE TWO JOBS, AND A GLOSSARY OF TERMS. (JR)

INSTITUTION NAME: OHIO STATE DEPT. OF EDUCATION, COLUMBUS. DIV. OF VOCATIONAL EDUCATION.; OHIO STATE UNIV., COLUMBUS. TRADE AND INDUSTRIAL EDUCATION INSTRUCTIONAL MATERIALS LAB.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003768

ERIC ACCESSION NUMBER: ED111947

PUBLICATION DATE: 1 MAY 74

TITLE: ELECTRICITY/ELECTRONICS. CAREER EDUCATION GUIDE.

INSTITUTION CODE: FGK88930

DESCRIPTOR: BEHAVIORAL OBJECTIVES; *CAREER EDUCATION COURSE DESCRIPTIONS; *CURRICULUM GUIDES; ELECTRICAL SYSTEMS ELECTRIC CIRCUITS; *ELECTRICITY; ELECTROMECHANICAL TECHNOLOGY; *ELECTRONICS; INSTRUCTIONAL MATERIALS; JOE TRAINING; LABORATORY PROCEDURES; LEARNING ACTIVITIES; RADIO TECHNOLOGY; SECONDARY EDUCATION; TELEVISION; TRADE AND

INDUSTRIAL EDUCATION; TRANSISTORS

:DRS PRICE: EDRS PRICE MF-$0.76 HC-$5.70 PLUS POSTAGE

)ESCRIPTIVE NOTE: 101P.; FOR RELATED DOCUMENTS, SEE CE 004 ›59-660 AND CE 004 662-669.; MATERIALS REFERRED TO IN THE UIDE ARE AVAILABLE FROM ELECTRONIC AIDS, INC. (EA), C/O IYCOM MEDIA CORPORATION, 2175 GREENSPRING DR., TIMONIUM, ARYLAND 21093; TWELVE WALL CHARTS SUPPORTING THE GUIDES ARE VAILABLE FROM DIRECTORATE, UNITED STATES DEPENDENTS CHOOLS, EUROPEAN AREA, DEPT. OF THE ARMY, APO O 9164 REFERENCE WALL CHART 8, MAN 352-6, NUMBERS 1-4)

SSUE: RIEFEB76

BSTRACT: THE CURRICULUM GUIDE IS DESIGNED TO PROVIDE HIGH CHOOL STUDENTS WITH REALISTIC TRAINING IN LECTRICITY/ELECTRONICS THEORY AND PRACTICE AND TO PREPARE HEM FOR ENTRY INTO AN OCCUPATION OR CONTINUING OSTSECONDARY EDUCATION. THE LEARNING MODULES ARE GROUPED NTO THREE AREAS: ELECTRICAL TECHNOLOGY, RADIO-TELEVISION ECHNOLOGY, AND INDUSTRIAL ELECTRONICS. ALL MODULES IN THE UTLINE ARE KEYED TO ELECTRONIC AIDS, INC. MATERIALS ROGRAMS AND EQUIPMENT. EACH UNIT PLAN CONSISTS OF A ESCRIPTION OF THE AREA UNDER CONSIDERATION, ESTIMATED HOURS F INSTRUCTION, BEHAVIORAL OBJECTIVES, A MODULE OUTLINE, A IST OF USEFUL CURRICULUM MATERIALS AND RESOURCES, ABORATORY ACTIVITIES, AND LABORATORY MATERIALS. THE LECTRICITY/ELECTRONICS CURRICULUM COVERS THE FOLLOWING OPICS: CONSUMER ELECTRICITY, ELEMENTS OF ELECTRICITY, LECTRICAL WIRING AND EQUIPMENT SKILLS, PRINCIPLES OF LECTRICITY, LIGHTING AND ALARM INSTALLATION SKILLS, LECTRO-MECHANICAL CONTROL SYSTEMS, ELEMENTS OF FLUID ONTROL SYSTEMS, MOTOR SERVICES SKILLS, MOTOR CONTROL KILLS, ELEMENTS OF ELECTRONICS, BASIC LECTRICITY/ELECTRONICS SKILLS, PRINCIPLES OF ELECTRONICS, RANSISTOR FUNDAMENTALS, TRANSISTOR APPLICATIONS, TRANSISTOR ND LOGIC SKILLS, OFFICE MACHINE REPAIR SKILLS, FUNDAMENTALS F AM RECEIVERS, AM RECEIVER SKILLS, FUNDAMENTALS OF FM ECEIVERS, FM RECEIVER SKILLS, PRINCIPLES OF TELEVISION, NTEGRATED CIRCUIT DESIGN, AND LOGIC CIRCUIT DESIGN. THE OCUMENT CONCLUDES WITH A SUGGESTED FACILITIES LAYOUT OF AN LECTRONICS/ELECTRICITY LABORATORY AND AN EQUIPMENT LIST. 8P)

EPORT NUMBER: USDESEA-MAN-352-356-4

NSTITUTION NAME: DEPENDENTS SCHOOLS (DOD), WASHINGTON, .C. EUROPEAN AREA.

RIS ACCESSION NUMBER: EW003769

RIC ACCESSION NUMBER: ED112262

UBLICATION DATE: MAR 75

ITLE: INTRODUCTION TO THE CONTROL OF ELECTRIC MOTORS.

ERSONAL AUTHOR: SPENCER, FREDERICK

NSTITUTION CODE: QAT77005

PONSORING AGENCY CODE: QAT59178

ESCRIPTOR: COURSE CONTENT; *CURRICULUM GUIDES; *ELECTRIC IRCUITS; ELECTRICITY; *ELECTRIC MOTORS; *ELECTRONIC ONTROL; INSTRUCTIONAL MATERIALS; SECONDARY EDUCATION;)CATIONAL EDUCATION

DRS PRICE: EDRS PRICE MF-$0.76 HC-$5.70 PLUS POSTAGE

ESCRIPTIVE NOTE: 117P.

SSUE: RIEFEB76

BSTRACT: THE FUNDAMENTALS OF ELECTRIC CIRCUITS AND LECTRIC MACHINES ARE PRESENTED IN THE TEXT, WITH AN MPHASIS ON THE PRACTICAL OPERATION RATHER THAN ON ATHEMATICAL ANALYSES OF THEORIES INVOLVED. THE MATERIAL ONTAINED IN THE TEXT INCLUDES THE FUNDAMENTALS OF BOTH D.C. ND A.C. CIRCUITS TOGETHER WITH THE PRINCIPLES OF MAGNETISM ND ELECTRO-MAGNETIC INDUCTION, SO AS TO PROVIDE A OUNDATION FOR THE UNDERSTANDING OF THE PRINCIPLES OF LECTRIC MACHINERY OPERATION. APPLICATION OF THESE UNDAMENTALS IS MADE IN THE DISCUSSION OF D.C. GENERATORS, .C. MOTORS, TRANSFORMERS, A.C. GENERATORS, INDUCTION)TORS, SYNCHRONOUS MOTORS, SINGLE-PHASE MOTORS, AND)LYPHASE MOTORS. REVIEW QUESTIONS ARE INCLUDED AT THE END F EACH LESSON FOR EVALUATING STUDENT PROGRESS OR FOR CLASS ISCUSSION. (NJ)

EPORT NUMBER: VT-102-067

VAILABILITY: NEW JERSEY VOCATIONAL TECHNICAL CURRICULUM ABORATORY, BUILDING 4103 KILMER CAMPUS, RUTGERS UNIVERSITY, EW BRUNSWICK, NEW JERSEY 08903 ($3.00 PLUS POSTAGE)

NSTITUTION NAME: RUTGERS, THE STATE UNIV., NEW BRUNSWICK, .J. CURRICULUM LAB.

PONSORING AGENCY NAME: NEW JERSEY STATE DEPT. OF)UCATION, TRENTON. DIV. OF VOCATIONAL EDUCATION.

RIS ACCESSION NUMBER: EW003770

RIC ACCESSION NUMBER: ED118968

UBLICATION DATE: SEP 73

ITLE: THE BENEFIT-COST RELATIONSHIP IN ENTRY JOB TRAINING I WATER DISTRIBUTION.

ERSONAL AUTHOR: REAMES, J. P. (JIM)

PONSORING AGENCY CODE: BBB12382

ESCRIPTOR: *COST EFFECTIVENESS; *EFFICIENCY; *ENTRY IRKERS; INDUSTRIAL TRAINING; *JOB TRAINING; ON THE JOB AINING; *PLUMBING; UTILITIES; DALLAS WATER UTILITIES EPARTMENT; *WATER DISTRIBUTION

DRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE

ESCRIPTIVE NOTE: 20P.

ISSUE: RIEJUL76

ABSTRACT: THE BENEFIT-COST RELATIONSHIP ANALYSIS CONCERNS THE COST EFFECTIVENESS OF EMPLOYMENT AND TRAINING IN THE WATER DISTRIBUTION DIVISION OF THE DALLAS WATER UTILITIES DEPARTMENT AND DEALS SPECIFICALLY WITH 104 ENTRY WORKERS HIRED TO BECOME PIPE FITTERS. HALF OF THE ENTRY WORKERS WERE ENROLLED IN THE PUBLIC SERVICE CAREERS (PSC) TRAINING PROGRAM AND THE OTHER HALF RECEIVED NO FORMAL TRAINING. EMPLOYEE COST, EMPLOYEE PROFICIENCY, AND PERSONNEL TURNOVER WERE EXAMINED FOR EACH GROUP. DATA INDICATE THAT ALTHOUGH THE PSC TRAINED EMPLOYEES INCURRED A COST OF $200 PER MONTH OF TRAINING, THEY REACHED FULL PROFICIENCY AT 13 MONTHS; THE NON-TRAINED EMPLOYEES REACHED PROFICIENCY AT 21 MONTHS. ONE OUT OF 10.4 NON-TRAINED EMPLOYEES STAYED; THE 47 THAT QUIT TERMINATED WORK AFTER AN AVERAGE OF 7.4 MONTHS. HALF OF THE PSC TRAINED EMPLOYEES STAYED; THOSE THAT QUIT DID SO AFTER 12.9 MONTHS. COMPARING THE TRAINING COSTS INVOLVED IN FILLING A JOB WITH TRAINED VERSUS UNTRAINED EMPLOYEES, THE SAVINGS EXPERIENCED FROM AN INVESTMENT IN FORMAL TRAINING IS $12,633 PER JOB, THUS VERIFYING THE COST-EFFECTIVENESS OF TRAINING. (TABLES AND FIGURES SUPPLEMENT THE TEXT.) (LH)

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF EDUCATION AND MANPOWER PLANNING.

IRIS ACCESSION NUMBER: EW003771

ERIC ACCESSION NUMBER: ED120514

PUBLICATION DATE: 1 JAN 71

TITLE: CONSTRUCTION CLUSTER VOLUME III PLUMBING .

INSTITUTION CODE: BBB02239

DESCRIPTOR: BUILDING TRADES; *CONSTRUCTION INDUSTRY; *CURRICULUM GUIDES; *INSTRUCTIONAL MATERIALS; INTEGRATED CURRICULUM; JOB SKILLS; OCCUPATIONAL CLUSTERS; *PLUMBING; SECONDARY EDUCATION; *UNIT PLAN

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$7.35 PLUS POSTAGE

DESCRIPTIVE NOTE: 150P.; FOR OTHERS IN THE SERIES, SEE CE 006 818-822

ISSUE: RIEAUG76

ABSTRACT: THE DOCUMENT IS THE THIRD OF A SERIES, TO BE INTEGRATED WITH A G.E.D. PROGRAM, CONTAINING INSTRUCTIONAL MATERIALS AT THE BASIC SKILLS LEVEL FOR THE CONSTRUCTION CLUSTER. THE VOLUME FOCUSES ON PLUMBING AND CONSISTS OF 20 INSTRUCTIONAL UNITS WHICH REQUIRE A MONTH OF STUDY. THE UNITS INCLUDE: (1) IMPORTANCE OF PLUMBING; (2) PIPE AND TUBING CONNECTION; (3) BLUEPRINT READING AND MEASURING TOOLS; (4) BLUEPRINT READING AND POWER TOOLS; (5) SYSTEMS DESIGN AND TESTING EQUIPMENT; (6) SYSTEMS DESIGN, TESTING, AND FITTING; (7) SYSTEMS DESIGN AND MATERIALS USED; (8) RESIDENTIAL SEWAGE SYSTEMS; (9) COLD WATER DISTRIBUTION SYSTEMS AND RESIDENTIAL FLOOR PLANS; (10) HEATING SYSTEMS; (11) BOILERS AND CHIMNEYS; (12) HEAT; (13) HOT WATER HEATING SYSTEMS; (14) SELECTION AND INSTALLATION OF FIRE LINES; (15) LEADWORK AND FLANGES; (16) TRANSITS; (17) ON-THE-JOB WORK AIDS; (18) PRIVATE DISPOSAL SYSTEMS; (19) RAILING WORK, REPAIR, AND STORM INFORMATION FOR THE TEACHER: AIM, INSTRUCTIONAL AIDS, EQUIPMENT, PRIMARY REFERENCES, INTRODUCTION AND MOTIVATION, A PRESENTATION OF INTEGRATED CONCEPTS, APPLICATION, EVALUATION CRITERIA GUIDELINES, SUMMARY, SUGGESTED TIME AND SEQUENCE LISTING, AND SUPPLEMENTAL REFERENCES AND RESOURCE MATERIALS. A BIBLIOGRAPHY AND RESOURCE LIST ARE INCLUDED. (EC)

INSTITUTION NAME: PENNSYLVANIA STATE DEPT. OF JUSTICE, HARRISBURG. BUREAU OF CORRECTION.

IRIS ACCESSION NUMBER: EW003772

ERIC ACCESSION NUMBER: ED128562

PUBLICATION DATE: 73

TITLE: HEAVY EQUIPMENT. TRADE AND INDUSTRIAL EDUCATION TRADE PREPARATORY TRAINING GUIDE.

INSTITUTION CODE: PEA57754

DESCRIPTOR: BEHAVIORAL OBJECTIVES; BUILDING TRADES; CURRICULUM; CURRICULUM DESIGN; *CURRICULUM GUIDES; EQUIPMENT; EQUIPMENT MAINTENANCE; *JOB SKILLS; *MECHANICAL EQUIPMENT; OCCUPATIONAL INFORMATION; SECONDARY EDUCATION; STATE CURRICULUM GUIDES; *TASK PERFORMANCE; *TRADE AND INDUSTRIAL EDUCATION; *HEAVY EQUIPMENT OPERATORS; NEBRASKA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 26P.; FOR RELATED DOCUMENTS SEE CE 007 553-569. APPENDIX A, APPLICATION FOR EMPLOYMENT, MAY NOT REPRODUCE WELL BECAUSE OF SMALL TYPE

ISSUE: RIEFEB77

ABSTRACT: ONE OF A SERIES OF CURRICULUM GUIDES PREPARED FOR THE BUILDING OCCUPATIONS CLUSTER OF THE CONSTRUCTION/FABRICATION OCCUPATIONAL GROUP, THIS GUIDE IDENTIFIES THE ESSENTIALS OF THE HEAVY EQUIPMENT TRADE AS RECOMMENDED BY THE SUCCESSFUL HEAVY EQUIPMENT OPERATOR. AN INSTRUCTIONAL PROGRAM BASED UPON THE IMPLEMENTATION OF THE GUIDE IS EXPECTED TO PREPARE A STUDENT TO ADEQUATELY PERFORM ENTRY LEVEL TASKS REQUIRED OF A HEAVY EQUIPMENT OPERATOR OR TO ENTER A POST-SECONDARY TECHNICAL OR APPRENTICESHIP PROGRAM IN HEAVY EQUIPMENT WHERE ADDITIONAL DEPTH CAN BE REALIZED. TRADE TASKS OR INFORMATION ARE LISTED IN CHART FORM UNDER THE HEADINGS OF SAFETY, GENERAL COMPETENCIES, GENERAL MAINTENANCE, UTILITY EQUIPMENT, ON- AND OFF-THE-ROAD TRUCKS, HYDRAULIC LIFT CRANE, MOTOR SCRAPER, TRACK AND RUBBER TIRED MOUNTED CRANE, HYDRAULIC BACKHOE, CRAWLER TRACTOR, FORK LIFT, AND MOTOR GRADER. SPACE IS PROVIDED ON THE CHARTS TO RECORD FOR EACH ITEM THE DATE COMPLETED, TEACHING METHODS USED, AND TEACHING MATERIALS USED. ALSO INCLUDED ARE A LIST OF TEACHER RESPONSIBILITIES, GUIDANCE INFORMATION AND SOURCES OF OCCUPATIONAL INFORMATION, RECOMMENDED TESTS AND REFERENCES, AND A CHART DEPICTING THE TOTAL CONSTRUCTION/FABRICATION OCCUPATIONAL CURRICULUM. A TYPICAL APPLICATION FOR EMPLOYMENT AND A SAMPLE TRADE AND

INDUSTRIAL EDUCATION INJURY REPORT ARE APPENDED. (HD)

INSTITUTION NAME: NEBRASKA STATE DEPT. OF EDUCATION, LINCOLN. DIV. OF VOCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003773

ERIC ACCESSION NUMBER: ED128566

PUBLICATION DATE: 73

TITLE: PLUMBING AND PIPEFITTING. TRADE AND INDUSTRIAL EDUCATION TRADE PREPARATORY TRAINING GUIDE.

INSTITUTION CODE: PEA57754

DESCRIPTOR: BEHAVIORAL OBJECTIVES; BUILDING TRADES; CURRICULUM; CURRICULUM DESIGN; *CURRICULUM GUIDES; *JOB SKILLS; OCCUPATIONAL INFORMATION; *PLUMBING; SECONDARY EDUCATION; STATE CURRICULUM GUIDES; *TASK PERFORMANCE; *TRADE AND INDUSTRIAL EDUCATION; NEBRASKA

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 28P.; FOR RELATED DOCUMENTS SEE CE 007 553-569. APPENDIX A, APPLICATION FOR EMPLOYMENT, MAY NOT REPRODUCE WELL BECAUSE OF SMALL TYPE

ISSUE: RIEFEB77

ABSTRACT: ONE OF A SERIES OF CURRICULUM GUIDES PREPARED FOR THE BUILDING OCCUPATIONS CLUSTER OF THE CONSTRUCTION/FABRICATION OCCUPATIONAL GROUP, THIS GUIDE IDENTIFIES THE ESSENTIALS OF THE PLUMBING AND PIPEFITTING TRADE AS RECOMMENDED BY THE SUCCESSFUL PLUMBER/PIPEFITTER. AN INSTRUCTIONAL PROGRAM BASED UPON THE IMPLEMENTATION OF THE GUIDE IS EXPECTED TO PREPARE A STUDENT TO ADEQUATELY PERFORM ENTRY LEVEL TASKS REQUIRED OF A PLUMBER/PIPEFITTER OR TO ENTER A POST-SECONDARY TECHNICAL OR APPRENTICESHIP PROGRAM IN PLUMBING AND PIPEFITTING WHERE ADDITIONAL DEPTH CAN BE REALIZED. TRADE TASKS OR INFORMATION ARE LISTED IN CHART FORM UNDER THE HEADINGS OF SAFETY; BLUEPRINT READING AND PLANNING; LABOR AND MATERIAL ESTIMATING; TOOLS AND EQUIPMENT; SELECTION AND USE OF MATERIALS AND SUPPLIES; LAYOUT, FABRICATION, ASSEMBLY, INSTALLATION, MAINTENANCE, AND REPAIR; AND GENERAL COMPETENCIES. SPACE IS PROVIDED ON THE CHARTS TO RECORD FOR EACH ITEM THE DATE COMPLETED, TEACHING METHODS USED, AND TEACHING MATERIALS USED. ALSO INCLUDED ARE A LIST OF TEACHER RESPONSIBILITIES, GUIDANCE INFORMATION AND SOURCES OF OCCUPATIONAL INFORMATION, RECOMMENDED TESTS AND REFERENCES, AND A CHART DEPICTING THE TOTAL CONSTRUCTION/FABRICATION OCCUPATIONAL CURRICULUM. A TYPICAL APPLICATION FORM FOR EMPLOYMENT AND A SAMPLE TRADE AND INDUSTRIAL EDUCATION INJURY REPORT ARE APPENDED. (HD)

INSTITUTION NAME: NEBRASKA STATE DEPT. OF EDUCATION, LINCOLN. DIV. OF VOCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003774

ERIC ACCESSION NUMBER: ED133418

PUBLICATION DATE: 74

TITLE: ELECTRIC MOTORS. AN INSTRUCTIONAL UNIT FOR HIGH SCHOOL TEACHERS OF VOCATIONAL AGRICULTURE.

PERSONAL AUTHOR: DALTON, DELMER; CARPENTER, BRUCE

INSTITUTION CODE: BBB12993

DESCRIPTOR: *AGRICULTURAL ENGINEERING; *AGRICULTURAL MACHINERY; BEHAVIORAL OBJECTIVES; CURRICULUM GUIDES; *ELECTRIC MOTORS; SECONDARY EDUCATION; TEACHING GUIDES; UNITS OF STUDY (SUBJECT FIELDS); *VOCATIONAL AGRICULTURE; VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 66P.; FOR RELATED DOCUMENTS SEE CE 007 522-524

ISSUE: RIEJUN77

ABSTRACT: DESIGNED AS A 3-WEEK COURSE OF STUDY IN THE AGRICULTURAL MECHANICS CURRICULUM TO BE TAUGHT AT THE JUNIOR OR SENIOR HIGH SCHOOL LEVEL, THIS UNIT ON ELECTRIC MOTORS IS DIVIDED INTO 11 MAJOR PERFORMANCE OBJECTIVES. EACH OBJECTIVE IS SUBDIVIDED INTO THE AREAS OF CONTENT, SUGGESTED TEACHING AND LEARNING ACTIVITIES, RESOURCES, AND EVALUATION. TOPICS FOR THE 11 SECTIONS ARE (1) ELECTRIC THEORIES AND TERMS, (2) BASIC PRINCIPLES OF ELECTRIC MOTOR OPERATION, (3) MAJOR CHARACTERISTICS OF ELECTRIC MOTORS, (4) MAJOR TYPES OF ELECTRIC MOTORS, (5) SELECTION OF PROPER MOTORS FOR WORK SITUATIONS, (6) SELECTION OF THE CORRECT MOTOR DRIVE, (7) SELECTION OF THE CORRECT MOTOR PULLEY, (8) SELECTION OF V-BELTS, (9) SELECTION OF TYPE OF PROTECTIVE DEVICE OR CONTROL, (10) WIRING OR HOOK-UP OF ELECTRIC MOTORS, AND (11) SERVICING ELECTRIC MOTORS. TRANSPARENCY MASTERS ILLUSTRATING THE LESSONS ARE APPENDED. (NJ)

REPORT NUMBER: VT-103-428

INSTITUTION NAME: CURRICULUM DEVELOPMENT CENTER OF KENTUCKY, LEXINGTON.

IRIS ACCESSION NUMBER: EW003775

ERIC ACCESSION NUMBER: ED134743

PUBLICATION DATE: 74

TITLE: AGRICULTURAL ELECTRICITY. ELECTRIC CONTROLS. STUDENT MANUAL. REPORT NO. 820/20.

PERSONAL AUTHOR: BENSON, ROBERT T.

INSTITUTION CODE: BBB01636

SPONSORING AGENCY CODE: BBB02422

DESCRIPTOR: *AGRICULTURAL EDUCATION; *AGRICULTURAL ENGINEERING; *ELECTRICAL SYSTEMS; *ELECTRIC CIRCUITS ELECTRONICS; EQUIPMENT; INSTRUCTIONAL MATERIALS; SECONDAR EDUCATION; VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 17P.

ISSUE: RIEJUL77

ABSTRACT: ADDRESSED TO THE STUDENT, THIS MANUAL PRESENT TERMS, ABBREVIATIONS, AND SYMBOLS USED IN DISCUSSING MANUA OR AUTOMATIC CONTROL OF THE FLOW OF ELECTRIC CURRENT DIAGRAMS ACCOMPANY DISCUSSION OF THE FOLLOWING TYPES O CONTROL DEVICES AND PRINCIPLES OF OPERATION: HEAT SENSITIV CONTROLS (THERMOSTATS, THERMAL RELAYS), LIGHT SENSITIV CONTROLS (PHOTO-ELECTRIC CELL), LIMIT SWITCHES (APPLICATION AND TYPES), FRACTIONAL HORSEPOWER MOTOR STARTERS (STARTIN SWITCHES), TIME CLOCKS, ELECTROMAGNETS (SOLENOID, RELAYS) AND SWITCHES (TOGGLE, PUSH BUTTON). (TA)

INSTITUTION NAME: CLEMSON UNIV., S.C. VOCATIONAL EDUCATIO MEDIA CENTER.

SPONSORING AGENCY NAME: SOUTH CAROLINA STATE DEPT. O EDUCATION, COLUMBIA. VOCATIONAL AGRICULTURE SECTION.

IRIS ACCESSION NUMBER: EW003776

ERIC ACCESSION NUMBER: ED136062

PUBLICATION DATE: 76

TITLE: PLUMBING. TRADE AND INDUSTRIAL EDUCATION COURSE C STUDY.

PERSONAL AUTHOR: ERISMAN, KENNETH E., COMP.; GERBERICH CHARLES F., COMP.

INSTITUTION CODE: SYN71850

SPONSORING AGENCY CODE: BBB12921

DESCRIPTOR: CURRICULUM; INSTRUCTIONAL MATERIALS; *JC SKILLS; *LEARNING ACTIVITIES; *PLUMBING; POST SECONDAR EDUCATION; SECONDARY EDUCATION; TASK PERFORMANCE; *TRADE AN INDUSTRIAL EDUCATION; VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$24.77 PLUS POSTAGE.

DESCRIPTIVE NOTE: 473P.; FOR RELATED DOCUMENTS SEE CE 01 380-382 AND CE 007 942-944

ISSUE: RIEAUG77

ABSTRACT: INTENDED TO BE USED AS A TEACHING AND LEARNI GUIDE, THE BASIC COURSE OF STUDY PRESENTED IN THES MATERIALS IS DESIGNED TO PROVIDE THE ESSENTIALS OF TH PLUMBING TRADE, INSURING THAT STUDENTS WHO SUCCESSFULL COMPLETE THE COURSE WILL HAVE SUFFICIENT COMPETENCIES FO INITIAL EMPLOYMENT AND AMPLE ORIENTATION FOR GROWTH AN DEVELOPMENT. THE COURSE OF STUDY IS DESIGNED AS A 3-YEA CURRICULUM INVOLVING APPROXIMATELY 1,500 HOURS OF CLASS AN LABORATORY INSTRUCTION. THE MATERIAL HAS BEEN ARRANGED I MAJOR DIVISIONS OF THE TRADE: (1) PIPES AND FITTINGS, (2 VALVES, (3) COLD WATER SUPPLY, (4) HOT WATER SUPPLY, (5 DRAINAGE SYSTEMS, AND (6) FIXTURES. MOST OF THE COURS MATERIAL CONSISTS OF JOB SHEETS, WHICH INDICATE TO TH STUDENT WHAT TO DO IN PERFORMING VARIOUS JOBS ASSIGNED, AN SKILL COMPETENCY SHEETS, WHICH SUPPLEMENT JOB SHEETS AN INDICATE TO THE STUDENT HOW TO PERFORM THE MANIPULATIV HANDLING OF TOOLS AND MATERIALS THAT MAKE UP THE DOING PAR OF THE OCCUPATION. THEY ARE SIMPLY WRITTEN AND HIGHL ILLUSTRATED. A CUMULATIVE REUSE OF THE SKILL COMPETENCIE CONTINUES THROUGHOUT THE ENTIRE JOB SHEET COLLECTION. TH JOB SHEETS ARE ARRANGED IN AN ORDER THAT GRADUALLY EXPOSE THE SKILL COMPETENCIES TO INSURE THE INTRODUCTION OF EAC OPERATION OR SKILL COMPETENCY IN A CONTROLLED MANNER INCLUDED FOR USE BY THE TEACHER ARE GENERAL COURS OBJECTIVES, SUGGESTED TEACHING METHODS AND VEHICLES O INSTRUCTION, AND A LIST OF ITEMS TO BE DEVELOPED BY TH LOCAL TEACHER. SAMPLE INFORMATION SHEETS, SAMPLE ASSIGNMEN SHEETS, AND A BIBLIOGRAPHY ARE INCLUDED. (HD)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSIT PARK. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: PENNSYLVANIA STATE DEPT. O EDUCATION, HARRISBURG. BUREAU OF VOCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003777

ERIC ACCESSION NUMBER: ED145236

PROGRAM AREA: 08

PUBLICATION DATE: 10 AUG 77

TITLE: DEVELOPMENT OF A COMPETENCY-BASED CURRICULUM FO UPGRADING WATER TREATMENT TECHNICIANS. FINAL REPORT.

PERSONAL AUTHOR: ROSS-HARRINGTON, MELINDA

INSTITUTION CODE: ZJF95080

SPONSORING AGENCY CODE: RMQ66000; ZJF95105

DESCRIPTOR: ADULT EDUCATION; CHEMISTRY; CURRICULUM DESIGN *CURRICULUM DEVELOPMENT; CURRICULUM PLANNING; INSERVIC EDUCATION; JOB SKILLS; JOB TRAINING; PARAPROFESSION PERSONNEL; *PERFORMANCE BASED EDUCATION; POST SECONDAR EDUCATION; TASK ANALYSIS; *TECHNICAL EDUCATION; TECHNICA OCCUPATIONS; TRADE AND INDUSTRIAL EDUCATION; *UTILITIE *WATER RESOURCES; *WATER TREATMENT TECHNICIANS; *WATI TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 73P.; PARTS OF THE APPENDIX AR MARGINALLY LEGIBLE DUE TO PRINT QUALITY

ISSUE: RIEMAR78

ABSTRACT: THE MAJOR PURPOSE OF A PROJECT HAS BEEN

EVELOP AN INSTRUCTIONAL PROGRAM FOR TRAINING WATER REATMENT TECHNICIANS THROUGH THE COOPERATIVE EFFORTS OF NDUSTRY, THE REGULATORY AGENCY (WEST VIRGINIA STATE EPARTMENT OF HEALTH), AND VOCATIONAL EDUCATION. AFTER THE PPROPRIATE JOB COMPETENCIES WERE IDENTIFIED, A PROGRAM WAS EVELOPED COMBINING A COMPETENCY-BASED FORMAT, MODULES OF NSTRUCTION, AND PROVISION FOR OPEN ENTRY/OPEN EXIT. THE WELVE CURRICULUM MODULES DEVELOPED DEAL WITH THE FOLLOWING: ENERAL PLANT OPERATION; TASTE, ODOR, AND COLOR; HEMISTRY/BACTERIOLOGY; CHLORINATION; FLUORIDATION; ILTRATION; HYDRAULICS; DISTRIBUTION SYSTEMS; PUMPS; WELLS; ROSS CONNECTIONS; AND SPRINGS. THE CURRICULUM WAS PILOT ESTED IN AN ADULT EDUCATION SETTING WITH PERSONS EMPLOYED S "OPERATORS IN TRAINING" IN CLASS I AND II (LOWER OF FOUR EVELS) WATER TREATMENT PLANTS. THE CURRICULUM WAS DESIGNED O THAT IT MAY BE USED IN BOTH A POSTSECONDARY SETTING FOR EW TRAINEES AND IN AN ADULT EDUCATION SETTING FOR EITHER EW TRAINEES OR FOR UPGRADING PRESENTLY EMPLOYED WATER REATMENT TECHNICIANS. APPENDED MATERIALS INCLUDE THE OLLOWING: A SAMPLE STUDENT COMPETENCY SHEET WHICH DENTIFIES A COMPETENCY, ITS OBJECTIVES, LIST OF NECESSARY ESOURCES, LEARNING ACTIVITIES, AND EVALUATION ACTIVITIES; A IST OF 61 FINALIZED COMPETENCIES; A PRODUCT EVALUATION ORM; AND A BIBLIOGRAPHY. (AUTHOR/BL)

RANT NUMBER: G007603801

NSTITUTION NAME: WEST VIRGINIA RESEARCH COORDINATING UNIT OR VOCATIONAL EDUCATION, HUNTINGTON.

PONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), ASHINGTON, D.C.; WEST VIRGINIA STATE DEPT. OF EDUCATION, HARLESTON. BUREAU OF VOCATIONAL, TECHNICAL, AND ADULT DUCATION.

IRIS ACCESSION NUMBER: EW003778

RIC ACCESSION NUMBER: ED150401

PUBLICATION DATE: 77

TITLE: CURRICULUM GUIDE FOR ELECTRICAL OCCUPATIONS (FIRST DITION).

INSTITUTION CODE: BBB12644

DESCRIPTOR: APPLIANCE REPAIRING; *BEHAVIORAL OBJECTIVES; CAREER EDUCATION; COMMUNICATION SKILLS; CURRICULUM; URRICULUM GUIDES; ELECTRICAL APPLIANCE SERVICEMEN; ELECTRICAL OCCUPATIONS; ELECTRIC CIRCUITS; ELECTRICIANS; ELECTRONIC EQUIPMENT; ELECTRONICS; EQUIPMENT MAINTENANCE; GRADE 11; GRADE 12; HIGH SCHOOL CURRICULUM; *JOB SKILLS; EARNING ACTIVITIES; MEASUREMENT INSTRUMENTS; PERFORMANCE ASED EDUCATION; RESOURCE MATERIALS; SENIOR HIGH SCHOOLS; KILL DEVELOPMENT; STATE CURRICULUM GUIDES; THEORIES; TRADE AND INDUSTRIAL EDUCATION; UNITS OF STUDY; OREGON; VOLTAGE

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 247P.

ISSUE: RIEJUL78

ABSTRACT: THIS CURRICULUM GUIDE ON ELECTRICAL OCCUPATIONS S DESIGNED TO PROVIDE ELEVENTH AND TWELFTH GRADE TEACHERS WITH THE EDUCATIONAL SPECIFICATIONS FOR SPECIFIC KNOWLEDGE AND SKILLS THAT WILL QUALIFY STUDENTS FOR ENTRY-LEVEL EMPLOYMENT IN FIVE ELECTRICAL OCCUPATIONAL AREAS: INSIDE ELECTRICIAN, OUTSIDE ELECTRICIAN, ELECTRONICS ASSEMBLER, ELECTRICAL APPLIANCE REPAIR, AND ELECTRONIC TECHNICIAN. THE GUIDE IS DIVIDED INTO FOUR SECTIONS. THE FIRST ONE, AN INTRODUCTION, INCLUDES EDUCATIONAL GOALS, DEFINITIONS OF ERMS, AND PROVISIONS FOR APPROVAL OF SECONDARY VOCATIONAL PROGRAMS. THE SECOND SECTION PRESENTS A WORLD-OF-WORK CHART SHOWING A CAREER, OCCUPATION, AND INSTRUCTIONAL ANALYSIS FOLLOWED BY A LIST OF COMMON SKILL REQUIREMENTS FOR EACH OF THE FIVE OCCUPATIONAL AREAS. SECTION 3 DISCUSSES GOAL-BASED PLANNING AND THE MAIN OBJECTIVE FOR THE ELECTRICAL CLUSTER, INDIVIDUALIZED INSTRUCTION, AND SUGGESTED ALLIED SUPPORTING OURSES TO BE INCLUDED IN THE ELECTRICAL CLUSTER CURRICULUM. IN THE LAST SECTION, COMPRISING THE MAJOR PORTION OF THE GUIDE, CONTENT IS DIVIDED INTO FIVE SUBSECTIONS, EACH OVERING ONE OF THE FOLLOWING SKILL AREAS IN THE ELECTRICAL CAREER EDUCATION PROCESS: TECHNICAL COMMUNICATIONS; TESTING AND MEASURING; ASSEMBLY, MAINTENANCE, AND REPAIR; ELECTRICAL/ELECTRONIC THEORY AND MATH; AND PERSONAL DEVELOPMENT AND LEADERSHIP. EACH SUBSECTION INCLUDES THE FOLLOWING CORRELATED COMPONENTS: A COURSE GOAL, STUDENT COMPETENCIES (FROM FIFTEEN TO FIFTY-SEVEN), PERFORMANCE INDICATORS (FROM ONE TO TEN), AND SUGGESTED LEARNING ACTIVITIES. THIS LAST SECTION CONCLUDES WITH A BRIEF DISCUSSION OF STUDENT ASSESSMENT. LISTINGS OF AUDIOVISUAL MATERIALS, REFERENCES, AND SOURCES ARE APPENDED. (EM)

AVAILABILITY: OREGON DEPARTMENT OF EDUCATION, 942 LANCASTER DRIVE N.E., SALEM, OREGON 97310 ($2.50)

INSTITUTION NAME: OREGON STATE DEPT. OF EDUCATION, SALEM. CAREER AND VOCATIONAL EDUCATION SECTION.

IRIS ACCESSION NUMBER: EW003780

PUBLICATION DATE: 79

TITLE: INDUSTRIAL AND HAZARDOUS WASTES IMPOUNDMENT.

PERSONAL AUTHOR: CHEREMISINOFF, NICHOLAS P.; AND OTHERS

DESCRIPTOR: DELIVERY SYSTEMS; *ENVIRONMENTAL INFLUENCES; INDUSTRY; *LEGISLATION; *OPERATION ANALYSIS; POLLUTION; PUBLIC HEALTH; SAFETY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *TOXIC SUBSTANCES; *HAZARDOUS WASTES; *MANAGEMENT; STATE ROLE; FEDERAL ROLE

DESCRIPTIVE NOTE: 475P.

ABSTRACT: THIS BOOK DESCRIBES THE STATE-OF-THE-ART OF HAZARDOUS WASTE MANAGEMENT WITH EMPHASIS ON STATE AND FEDERAL REGULATORY ROLES AS THEY ARE DEVELOPING AND FACE INDUSTRY. INFORMATION IS PROVIDED FOR GUIDING THE DISPOSAL OF HAZARDOUS AND TOXIC MATERIALS IN THE AREAS OF WASTE HANDLING PROCEDURES AND REGULATORY CONTROL. TOPIC AREAS INCLUDE: (1) ENVIRONMENTAL IMPACT OF IMPOUNDMENT OPERATIONS; (2) STATE REGULATORY CLIMATE; (3) PROPERTIES OF SLUDGES AND DISPOSAL ALTERNATIVES; (4) SITING CONSIDERATIONS; (5) TRANSPORTATION; (6) FACILITY OPERATIONS; AND (7) STATE INDUSTRIAL WASTE PROGRAMS. THE EXTENSIVE APPENDICES DISCUSS THE GUIDELINES AND IMPLEMENTATION OF THE RESOURCE CONSERVATION AND RECOVERY ACT AND THE TOXIC SUBSTANCES CONTROL ACT. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MICHIGAN 48106 ($29.50)

IRIS ACCESSION NUMBER: EW003781

PUBLICATION DATE: 78

TITLE: CORROSION CONTROL BY DEPOSITION OF CALCIUM CARBONATE FILMS. A HANDBOOK OF PRACTICAL APPLICATION AND INSTRUCTION.

DESCRIPTOR: *CALCIUM CARBONATE; *CHEMICAL REACTIONS; *CORROSION; ENGINEERING; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; POST SECONDARY EDUCATION; *WATER CONDITIONING; *WATER QUALITY

DESCRIPTIVE NOTE: 41P.

ABSTRACT: THIS HANDBOOK PROVIDES PRACTICAL INFORMATION DEALING WITH WATER CONDITIONING PROBLEMS IN A VARIETY OF OPERATING CONDITIONS. METHODS FOR SOLVING CONDITIONING PROBLEMS ARE PRESENTED IN A STEP-BY-STEP PROCEDURE USING CALDWELL-LAWRENCE DIAGRAMS AND BASIC CHEMISTRY. THE TEXT IS SUPPLEMENTED WITH NUMEROUS GRAPHS, CHARTS AND TABLES. (CS)

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 QUINCY AVE., DENVER, CO 80235 ($8.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOC.

IRIS ACCESSION NUMBER: EW003782

PUBLICATION DATE: 12-20-77

TITLE: NATIONAL WATER QUALITY GOALS CANNOT BE ATTAINED WITHOUT MORE ATTENTION TO POLLUTION FROM DIFFUSED OR "NONPOINT" SOURCES.

DESCRIPTOR: AGRICULTURE; *ENVIRONMENTAL INFLUENCES; *LEGISLATION; POLLUTION; *SOILS; STANDARDS; TECHNICAL REPORTS; *WATER POLLUTION CONTROL; *WATER QUALITY; *NONPOINT SOURCES; *RUNOFF WATERS

DESCRIPTIVE NOTE: 47P.

ABSTRACT: THE SOURCES AND PROBLEMS ASSOCIATED WITH NONPOINT POLLUTION ARE PRESENTED IN THIS REPORT TO CONGRESS BY THE COMPTROLLER GENERAL. THE PROBLEMS ARE DISCUSSED IN CONJUNCTION WITH THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 AND THE EFFORTS OF SEVERAL STATES IN CONTROLLING NONPOINT POLLUTION SOURCES. CHAPTER TWO IDENTIFIES THE INFORMATION REQUIRED FOR IMPLEMENTING EFFECTIVE CONTROL PROGRAMS. EXAMPLES OF EFFORTS TO CONTROL NONPOINT WATER POLLUTION BY AGRICULTURE, SILVICULTURE, AND URBAN DEVELOPMENT ARE CONTAINED IN THE APPENDIX. (CS)

AVAILABILITY: COMPTROLLER GENERAL OF THE UNITED STATES, WASHINGTON, D.C. 20548 (FREE)

INSTITUTION NAME: COMPTROLLER GENERAL OF THE UNITED STATES.

IRIS ACCESSION NUMBER: EW003784

PUBLICATION DATE: OCT 74

TITLE: BIBILOGRAPHY OF WATER POLLUTION CONTROL BENEFITS AND COSTS.

PERSONAL AUTHOR: UNGER, SAMUEL G.; JORDENING, DAVID

DESCRIPTOR: *BIBLIOGRAPHIES; COST BENEFIT ANALYSIS; *COST EFFECTIVENESS; ECONOMICS; *ENVIRONMENTAL QUALITY; MANAGEMENT; POLLUTION; RECYCLING; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 185P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF REPORTS WHICH DESCRIBES RESEARCH ON THE SOCIOECONOMIC IMPACT OF ENVIRONMENTAL PROBLEMS. THIS COMPUTER-LISTED BIBLIOGRAPHY INCLUDES APPROXIMATELY 3000 REFERENCES TO ENVIRONMENTAL QUALITY MANAGEMENT ISSUES DEALING WITH WATER POLLUTION CONTROL BENEFITS AND COSTS AND CLOSELY RELATED MATTERS. THE BIBLIOGRAPHY IS ARRANGED ALPHABETICALLY BY AUTHOR. ABBREVIATIONS USED IN LITERATURE SOURCES AND TERMS USED IN TITLES ARE DEFINED IN THE GLOSSARY. (CS)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 ($2.55)

IRIS ACCESSION NUMBER: EW003785

PUBLICATION DATE: JAN 75

TITLE: SECONDARY IMPACTS OF TRANSPORTATION AND WASTEWATER INVESTMENTS: REVIEW AND BIBLIOGRAPHY.

PERSONAL AUTHOR: BASCOM, S. E., AND OTHERS

DESCRIPTOR: *BIBLIOGRAPHIES; *ECONOMICS; *ENVIRONMENTAL IMPACT; LAND USE; *MASS TRANSIT; MUNICIPALITIES; *POLLUTION; RESEARCH; *SEWERS; *TRANSPORTATION; WATER POLLUTION CONTROL; WATER QUALITY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 290P. ORDER NO. PB 246 084; ALSO AVAILABLE FREE FROM U.S. EPA, OFFICE OF RESEARCH AND DEVELOPMENT, WASHINGTON, D.C. 20460

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS A REVIEW OF OVER 50 MAJOR STUDIES AND 300 RELEVANT REPORTS RELATED TO SECONDARY ENVIRONMENTAL IMPACTS ON VARIOUS FORMS OF PUBLIC INVESTMENTS. THE DOCUMENT IS DIVIDED INTO FOUR SECTIONS. SECTION I PRESENTS A REVIEW OF SECONDARY IMPACTS OF HIGHWAY,

MASS TRANSIT, AND INTERCEPTOR SEWER SYSTEMS. SECTION II CONDENSES THE FINDINGS OF MAJOR STUDIES RELATED TO THESE SYSTEMS, AND SECTION III PROVIDES AN ANNOTATED BIBLIOGRAPHY OF ADDITIONAL RELATED STUDIES. SECTION IV CLASSIFIES THESE STUDIES BY: (1) IMPACT; (2) INVESTMENT TYPE; (3) GEOGRAPHIC AREA; (4) TYPE OF STUDY; AND (5) TECHNIQUES UTILIZED. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($11.00)

INSTITUTION NAME: U.S. EPA, OFFICE OF RESEARCH AND DEVELOPMENT.

IRIS ACCESSION NUMBER: EW003786

PUBLICATION DATE: 79

TITLE: CHLORINE DIOXIDE: CHEMISTRY AND ENVIRONMENTAL IMPACT OF OXYCHLORINE COMPOUNDS.

PERSONAL AUTHOR: MASSCHELEIN, W. J.; RICE, RIP G.

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL ANALYSIS; *CHEMICAL INDUSTRY; CHEMICAL REACTIONS; *CHEMISTRY; ENVIRONMENTAL CRITERIA; ENVIRONMENTAL RESEARCH; *INSTRUCTIONAL MATERIALS; *ORGANIC CHEMISTRY; POST SECONDARY EDUCATION; *REFERENCE BOOKS; *WATER POLLUTION CONTROL; *CHLORINE DIOXIDE

DESCRIPTIVE NOTE: 190P.

ABSTRACT: THIS BOOK IS A DESCRIPTION OF THE CHEMICAL BASIS FOR TECHNICAL USES OF OXIDES OF CHLORINE AND SODIUM CHLORITE. IT REVIEWS THE PRINCIPLES OF THE REACTIVITY OF OXYCHLORINE DERIVATIVES INCLUDING RELATED ANALYTICAL METHODS. SPECIAL REFERENCE IS MADE IMPLICITLY TO THE DIRECT AND INDIRECT ENVIRONMENTAL IMPLICATIONS. CHAPTER TITLES WHICH FURTHER INDICATE CONTENTS INCLUDE: (1) LABORATORY PREPARATION; (2) PHYSICAL PROPERTIES; (3) THERMAL DECOMPOSITION; (4) REDOX REACTIONS OF CHLORINE DIOXIDE AND CHLORITE; (5) REACTIONS WITH ORGANIC COMPOUNDS; (6) INDUSTRIAL SYNTHESIS; AND (7) INDUSTRIAL APPLICATIONS OF CHLORINE DIOXIDE AND SODIUM CHLORITE. (MR)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MICHIGAN 48106 ($24.00)

IRIS ACCESSION NUMBER: EW003787

PUBLICATION DATE: 79

TITLE: MODERN ANALYSIS AND CONTROL OF UNSTEADY FLOW IN PIPELINES.

PERSONAL AUTHOR: WATTERS, GARY Z.

DESCRIPTOR: *EQUIPMENT; *ENGINEERING; *FLUID FLOW; *HYDRAULICS; MATHEMATICS; *PIPES; *PUMPS; SANITARY FACILITIES; TECHNOLOGY; WATER RESOURCES

DESCRIPTIVE NOTE: 251P.

ABSTRACT: THIS BOOK IS ADDRESSED TO THE TYPES OF UNSTEADY FLOW PROBLEMS FACED BY THE ENGINEER DESIGNING PIPELINES WHICH CONVEY LIQUIDS. MOST TYPES OF PIPELINE CONFIGURATIONS WHICH CAN CAUSE WATER HAMMER PROBLEMS ARE DISCUSSED AND EXAMPLES OF COMPUTER ANALYSES TO CORRECT PROBLEMS ARE INCLUDED. INCLUDED IN THE TOPICS DISCUSSED ARE: (1) RIGID WATER COLUMN THEORY; (2) ELASTIC THEORY; (3) COMPLEX PIPE SYSTEMS; (4) PUMPS IN PIPELINES; AND (5) PROBLEMS RESULTING FROM UNSTEADY FLOW IN PIPELINES. (CS)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MICHIGAN 48106 ($24.00)

IRIS ACCESSION NUMBER: EW003788

PUBLICATION DATE: 78

TITLE: PRINCIPLES OF ECOTOXICOLOGY, SCOPE 12.

PERSONAL AUTHOR: BUTLER, G. C.

DESCRIPTOR: BIOLOGY; CHEMISTRY; *ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; MICROBIOLOGY; PLANT PATHOLOGY; *POLLUTANTS; *POLLUTION; *POST SECONDARY EDUCATION; *TOXICOLOGY; ZOOLOGY

DESCRIPTIVE NOTE: 350P.

ABSTRACT: THIS BOOK GIVES A GENERAL OVERVIEW OF ECOTOXICOLOGY, ADDRESSES THE APPARENT DIFFICULTIES IN ASSESSING DOSE-EFFECT RELATIONSHIPS OF SUBLETHAL EXPOSURE TO CHEMICALS, AND STRESSES THE POINT AT WHICH RESEARCH MAY PROVIDE BETTER UNDERSTANDING OF THE PROCESSES INVOLVED. THE BOOK IS DIVIDED INTO FIVE SECTIONS. SECTION ONE, ENVIRONMENTAL BEHAVIOR OF POLLUTANTS, CONTAINS CHAPTERS ON GENERAL CONSIDERATION, ABIOTIC PROCESSES, BIOTIC PROCESSES, MODELS FOR TRANSPORT, AND ESTIMATION OF DOSES AND INTEGRATED DOSES. SECTION TWO CONTAINS ONE CHAPTER ON THE STATISTICAL ANALYSIS OF DOSE-EFFECT RELATIONSHIPS. SECTION THREE, EXPERIMENTAL TOXICOLOGY AND FIELD OBSERVATIONS RELATED TO ECOTOXICOLOGY, CONTAINS CHAPTERS ON GENERAL ASPECTS OF TOXICOLOGY, TERRESTRIAL ANIMALS, AQUATIC ANIMALS, TERRESTRIAL PLANTS AND PLANT COMMUNITIES, ECOTOXICOLOGY OF AQUATIC PLANT COMMUNITIES, TOXIC EFFECTS OF POLLUTANTS ON PLANKTON, TOXIC EFFECTS OF POLLUTANTS ON MICROORGANISMS, AND PHYSICAL AND CHEMICAL CHANGES IN THE ENVIRONMENT WITH INDIRECT BIOLOGICAL EFFECTS. SECTION FOUR IS ON ECOSYSTEM RESPONSES TO POLLUTION. SECTION FIVE PRESENTS CONCLUSIONS. (BB)

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($35.00)

IRIS ACCESSION NUMBER: EW003789

PUBLICATION DATE: 74

TITLE: ODOR DETECTION IN DRINKING WATER (XT-91).

PERSONAL AUTHOR: PFAFF, J.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSI *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATO PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIEN EDUCATION; WATER POLLUTION CONTROL; *ODOR DETECTIO WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 16 MINUTE TAPE, 47 SLIDE AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. S CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS SLIDE/TAPE SERIES IS DESIGNED FOR OPERATO OR LABORATORY PERSONNEL WORKING IN WATER TREATMENT PLANT IT IS DESIGNED TO SHOW THE OPERATOR THE RECOMMEND PROCEDURE FOR DETERMINING THE ODOR OF WATER AND HOW EXPRESS HIS FINDING AS THE THRESHOLD ODOR LEVEL BECOMES EA TO DETERMINE. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW003790

PUBLICATION DATE: 71

TITLE: FLUORIDE ANALYTICAL PROCEDURES (XT-80).

PERSONAL AUTHOR: PFAFF, J.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATOR PROCEDURES; POLLUTION; *POST SECONDARY EDUCATION; SCIENC EDUCATION; WATER POLLUTION CONTROL; *FLUORIDES; WASTEWATE TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 17 MINUTE TAPE, 54 SLIDES AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR OPERATORS WHO AR ADDING FLUORIDE OR EXPECT TO DO SO AND/OR THOSE WHO AR RESPONSIBLE FOR THE ANALYTICAL TESTING OF DRINKING WATER. I COVERS THE THREE STANDARD ANALYTICAL METHODS AS PUBLISHED I THE 13TH EDITION OF STANDARD METHODS FOR THE EXAMINATION O WATER AND WASTEWATER FOR THE DETERMINATION OF FLUORIDE ION IN WATER. THE DISTILLATION PROCEDURE RECOMMENDED BY STANDAR METHODS IS ALSO DISCUSSED. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW003791

PUBLICATION DATE: FEB 75

TITLE: ENGINEERING ASPECTS OF WATER FLUORIDATION (XT-89).

PERSONAL AUTHOR: PFAFF, J.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATOR PROCEDURES; POST SECONDARY EDUCATION; SCIENCE EDUCATION WATER POLLUTION CONTROL; *FLUORIDATION; *WATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 24 MINUTE TAPE, 60 SLIDES, AND A SCRIPT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR OPERATORS AN SUPERVISORS OF WATER TREATMENT PLANTS OR ANYONE CONNECTE WITH CONTROLLED FLUORIDATION. IT IS AN INTRODUCTION TO WATE SUPPLY OPERATORS ON THE ADDITION OF FLUORIDES TO A WATE SUPPLY. IT COVERS THE BASIC CHEMICALS USED IN MOST PLANTS A WELL AS THE TYPES OF FEEDERS THAT CAN BE USED. ALSO CONSIDERED IS THE TOPIC OF LOCATIONS OF THE EQUIPMENT. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW003792

PUBLICATION DATE: 75

TITLE: PUBLIC HEALTH ASPECTS OF WATER FLUORIDATION (XT-81).

PERSONAL AUTHOR: PFAFF, J.

DESCRIPTOR: *ADULT EDUCATION; *AUDIOVISUAL AIDS; *FLUORIDATION; HEALTH EDUCATION; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *PUBLIC HEALTH; SCIENCE EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 22 MINUTE TAPE, 41 SLIDES, SCRIPT, INSTRUCTOR AND STUDENT MANUALS. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS TAPE AND SLIDE PROGRAM EXPLAINS PUBLIC HEALTH IDEAS OF THE FLUORIDATION OF WATER SUPPLIES. INCLUDED ARE DATA REGARDING THE EFFECT OF FLUORIDE ON TEETH, EFFECT OF FLUORIDE ON OTHER PARTS OF THE BODY, TECHNIQUES FOR MEASURING FLUORIDE IN WATER, AND THE SMALL POSSIBILITY OF ANY ACCIDENTAL DISCHARGE OF AN EXCESSIVE AMOUNT OF FLUORIDE INTO THE WATER. (RH)

IRIS ACCESSION NUMBER: EW003793

PUBLICATION DATE: 75

TITLE: SIMPLIFIED GEOMETRIC MEAN, PARTS I - III (XT-85).

PERSONAL AUTHOR: SANTNER, J.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; MATHEMATICS EDUCATION; POLLUTION; *POST SECONDARY EDUCATION; *STATISTICS; WATER POLLUTION CONTROL; *GEOMETRIC MEAN; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS A 47 MINUTE TAPE, 87 SLIDES, 3 SCRIPTS, AND A HANDOUT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE WAS DESIGNED FOR PERSONS WITH BASIC ARITHMETIC SKILLS. THE INSTRUCTIONAL OBJECTIVE IS TO TEACH THE PROCEDURE FOR THE CALCULATION OF THE GEOMETRIC MEAN OF FECAL COLIFORM COUNTS WHEN USING LOGARITHMS. IT IS ASSUMED THE VIEWER HAS NOT USED LOGARITHMS, BUT CAN ADD A SERIES OF

DECIMAL NUMBERS AND DIVIDE THE TOTAL BY SOME WHOLE NUMBER. DEVELOPMENT OF THE TOPIC IS DONE IN STAGES WHERE THE TAPE IS STOPPED AT PACED INTERVALS FOR STUDENT PRACTICE. TWO CHECKS FOR GROSS ERRORS ARE GIVEN. IT INCLUDES PARTS I, II, AND III OF A THREE PART SERIES. (AUHTOR/JK)

IRIS ACCESSION NUMBER: EW003794

PUBLICATION DATE: SEP 75

TITLE: GEOMETRIC MEAN, PARTS I - III (XT-86).

PERSONAL AUTHOR: SANTNER, J.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; MATHEMATICS EDUCATION; POLLUTION; *POST SECONDARY EDUCATION; *STATISTICS; WATER POLLUTION CONTROL; *GEOMETRIC MEAN; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS 35 MINUTES OF TAPE, 78 SLIDES, 3 SCRIPTS, AND A HANDOUT. AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS MODULE IS DESIGNED FOR PERSONS WHO HAVE A SECONDARY EDUCATION OR EQUIVALENT. THE INSTRUCTIONAL OBJECTIVE IS TO TEACH THE PROCEDURE FOR THE CALCULATION OF THE GEOMETRIC MEAN OF FECAL COLIFORM COUNTS WHEN USING LOGARITHMS. THE VIEWER MAY OR MAY NOT HAVE USED LOGARITHMS, BUT SHOULD BE ABLE TO ADD A SERIES OF DECIMAL NUMBERS AND DIVIDE THE TOTAL BY SOME WHOLE NUMBER. THE PROCEDURE IS ILLUSTRATED WITH EXAMPLES. SAMPLE PROBLEMS ARE TO BE WORKED BY THE STUDENT AFTER VIEWING THE PROGRAM. TWO CHECKS FOR GROSS ERRORS ARE GIVEN. IT INCLUDES PARTS I, II, AND III OF A THREE PART SERIES. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW003795

PUBLICATION DATE: SEP 75

TITLE: ORIENTATION ON NPDES PERMITS (XT-88.1 - XT-88.8).

PERSONAL AUTHOR: SINCLAIR, R.; PFAFF, J.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; POLLUTION; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDED IS AN EIGHT-PART SLIDE/TAPE INSTRUCTIONAL UNIT. (15 - 20 MINUTES). AVAILABLE ON LOAN FROM NTOTC, 26 W. ST. CLAIR, CINCINNATI, OHIO 45268

ABSTRACT: THIS EIGHT-PART SLIDE/TAPE INSTRUCTIONAL UNIT IS INTENDED FOR THOSE PERSONS WHO ARE INTERESTED IN OR AFFECTED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). SOME EXAMPLES WOULD BE OPERATORS OF PUBLIC OR PRIVATELY OWNED WASTE WATER TREATMENT PLANTS, DECISISON MAKERS WHO ARE RESPONSIBLE FOR FINANCIAL DECISIONS WITH RESPECT TO THOSE PLANTS, OFFICIALS RESPONSIBLE FOR SUBMITTING DISCHARGE MONITORING REPORTS REQUIRED BY NPDES AND INTERESTED PRIVATE CITIZENS. SOME OF THE MAJOR TOPICS DISCUSSED DURING THE ORIENTATION WILL BE PUBLIC LAW 92-500, NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS, STREAM CLASSIFICATION AND STANDARDS, PERMIT CONDITIONS, SELF MONITORING PROGRAMS, OPERATION AND MAINTENANCE OF WASTEWATER TREATMENT PLANTS, QUALITY CONTROL OF THE EFFLUENT CONSTRUCTION GRANTS, COMPLIANCE MONITORING, TECHNICAL ASSISTANCE AND ENFORCEMENT. (AUTHOR/JK)

IRIS ACCESSION NUMBER: EW003796

PUBLICATION DATE: JUN 78

TITLE: RESEARCH, DEMONSTRATION, TRAINING AND FELLOWSHIP AWARDS.

DESCRIPTOR: AIR POLLUTION CONTROL; DEMONSTRATION PROJECTS; *ENVIRONMENT; *GRANTS; *PROGRAM DESCRIPTIONS; *POLLUTION; *PESTICIDES; *RESEARCH; *TRAINING; WASTE DISPOSAL; WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 800P. ORDER NO. PB 289 857

ABSTRACT: THIS PUBLICATION PROVIDES INFORMATION ON THE ENVIRONMENTAL PROTECTION AGENCY'S RESEARCH, DEMONSTRATION, TRAINING AND FELLOWSHIP AWARDS DURING 1977. THE DATA ARE ORGANIZED INTO TWO SECTIONS. SECTION 1 PROVIDES A GEOGRAPHIC LISTING BY STATE AND PROGRAM. SECTION II LISTS THE PROJECTS BY GRANT NUMBER AND PROVIDES A BRIEF PROJECT DESCRIPTION. THE DOCUMENT IS ARRANGED FOR EASY CROSS-REFERENCING BETWEEN THE SECTIONS. (CS)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.00)

INSTITUTION NAME: U.S. EPA, SPECIAL PROJECTS AND CONTROL SECTION, GRANTS OPERATIONS BRANCH.

IRIS ACCESSION NUMBER: EW003797

PUBLICATION DATE: 77

TITLE: SUPERVISION: CONCEPTS AND PRACTICES OF MANAGEMENT, SECOND ED.

PERSONAL AUTHOR: HAIMANN, THEO; HILGERT, RAYMOND

DESCRIPTOR: *EMPLOYER EMPLOYEE RELATIONSHIPS; *INSTRUCTIONAL MATERIALS; JOB SATISFACTION; *JOB SKILLS; *MANAGEMENT; *POST SECONDARY EDUCATION; *SUPERVISORY TRAINING; WORK ENVIRONMENT

DESCRIPTIVE NOTE: 143P.

ABSTRACT: THIS MANUAL PROVIDES INFORMATION TO INDIVIDUALS RESPONSIBLE FOR SUPERVISION OR SUPERVISORY TRAINING PROGRAMS. THE TEXT DISCUSSES THE MAJOR FUNCTIONAL AREAS OF PLANNING, ORGANIZING, STAFFING, DIRECTING, AND CONTROLLING. IN ADDITION TO THE BIBLIOGRAPHY, THE MANUAL PROVIDES: (1) A COMMENTARY ON AND TEACHING SUGGESTIONS FOR EACH CHAPTER; (2) SUGGESTIONS FOR QUESTIONS FOR DISCUSSION; (3) A NUMBER OF CASE PROBLEMS WITH QUESTIONS AND COMMENTS; AND (4) TRUE-FALSE AND MULTIPLE-CHOICE QUESTIONS TO TEST KNOWLEDGE OF TEXT MATERIAL. (CS)

AVAILABILITY: SOUTH-WESTERN PUBLISHING CO., 5101 MADISON RD., CINCINNATI, OHIO 45227 ($9.45)

IRIS ACCESSION NUMBER: EW003798

PUBLICATION DATE: APR 76

TITLE: THE PREPARATION AND REVIEW OF ENVIRONMENTAL IMPACT STATEMENTS.

PERSONAL AUTHOR: ANDERSON, ANTHONY H.; BRENTON, JACK

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *IMPACT STATEMENTS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; LEGISLATION; *NATURAL RESOURCES; *POST SECONDARY EDUCATION; *TECHNICAL WRITING

DESCRIPTIVE NOTE: 673P.

ABSTRACT: THIS TEXT PROVIDES A GENERAL APPROACH TO PREPARING AND REVIEWING ENVIRONMENTAL IMPACT STATEMENTS (EIS) TO MEET THE INTENT OF ALL APPLICABLE LEGISLATION. THE TEXT IS DIVIDED INTO FIVE SECTIONS. FIRST, THE ORIGIN OF THE IMPACT STATEMENT IN TERMS OF THE NATIONAL ENVIRONMENTAL POLICY ACT IS PRESENTED. SECOND, VARIOUS ASPECTS OF THE BASIC EIS PROCESS ARE HIGHLIGHTED. IN THE THIRD SECTION, THE READER IS GIVEN A STEP-BY-STEP GUIDE TO THE PREPARATION PROCESS. NEXT, AIDS FOR THE TASK OF EIS REVIEW ARE EXAMINED AND FINALLY, PART FIVE DISCUSSES THE MORE TECHNICAL ASPECTS OF PREPARATION AND REVIEW. THE EXTENSIVE APPENDICES CONTAIN SELECTED EXAMPLES AND VARIOUS FEDERAL AND STATE GUIDELINES AND REQUIREMENTS. (CS)

AVAILABILITY: U.S. EPA, OFFICE OF WATER PROGRAMS, WASHINGTON, DC 20460 (FREE)

IRIS ACCESSION NUMBER: EW003799

PUBLICATION DATE: OCT 76

TITLE: AQUATIC TOXICOLOGY AND HAZARD EVALUATION.

PERSONAL AUTHOR: MAYER, F. L.; HAMELINK, J. L.

DESCRIPTOR: *BIOCHEMISTRY; *ENVIRONMENTAL INFLUENCES; INDUSTRY; *MEASUREMENT TECHNIQUES; OCEANOLOGY; POLLUTION; PUBLIC HEALTH; *RESEARCH; *TOXICOLOGY; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: PROCEEDINGS OF THE FIRST ANNUAL SYMPOSIUM ON AQUATIC TOXICOLOGY

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS PRESENTED AT A SYMPOSIUM ON AQUATIC TOXICOLOGY IN 1976. EACH REPORT CONTAINS AN ABSTRACT, LIST OF KEY WORDS, SUMMARY, AND REFERENCES. THE CONTENTS ARE DIVIDED INTO THE TOPIC AREAS: (1) PHILOSOPHY OF HAZARD EVALUATION; (2) TOXICITY TESTING METHODS AND APPROACHES; (3) RESIDUE DYNAMICS AND MODELING TECHNIQUES; AND (4) BIOLOGICAL EFFECTS AND INTERPRETATION. (CS)

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE ST., PHILADELPHIA, PA 19103 ($30.75)

IRIS ACCESSION NUMBER: EW003800

PUBLICATION DATE: APR 78

TITLE: PROCEEDINGS OF THE 6TH ANNUAL INDUSTRIAL POLLUTION CONFERENCE.

PERSONAL AUTHOR: DELPINO, LOUIS; AND OTHERS

DESCRIPTOR: *CONFERENCE REPORTS; ENVIRONMENTAL INFLUENCES; *FACILITIES; LEGISLATION; *MANAGEMENT; OPERATIONS (WASTEWATER); POLLUTION; PUBLIC HEALTH; RECYCLING; *REGULATIONS; *RESEARCH; SLUDGE; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 532P.

ABSTRACT: THIS DOCUMENT CONTAINS THE PAPERS AND CASE STUDY REPORTS PRESENTED AT AN INDUSTRIAL POLLUTION CONFERENCE HELD IN 1978. EMPHASIS IN THIS DISCUSSION IS GEARED TO THE IMMEDIATE NEEDS OF INDUSTRIAL USERS FOR COST-EFFECTIVE SOLUTIONS TO CURRENT PROBLEMS. TOPIC AREAS OF THE PAPERS INCLUDE: (1) LAND APPLICATION OF SLUDGE; (2) POWDERED ACTIVATED CARBON; (3) USER CHARGES; (4) MEMBRANE POND LINERS; (5) SCREENS AND FILTERS; (6) TANK COATINGS; AND (7) FEDERAL AND STATE GUIDELINES AND REGULATIONS. (CS)

AVAILABILITY: WATER AND WASTEWATER EQUIPMENT MANUFACTURERS ASSOC., 7900 WESTPARK DR., MCLEAN, VIRGINIA 22101 ($25.00)

IRIS ACCESSION NUMBER: EW003801

PUBLICATION DATE: 78

TITLE: DRINKING WATER DETOXIFICATION.

PERSONAL AUTHOR: GILLIES, M. T.

DESCRIPTOR: *CHEMICAL ANALYSIS; COST EFFECTIVENESS; *ENVIRONMENTAL INFLUENCES; *EQUIPMENT UTILIZATION; LEGISLATION; *OPERATIONS (WATER); POLLUTION; PUBLIC HEALTH; *TECHNOLOGY; *TOXIC SUBSTANCES; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER TREATMENT; *CHLORINATION

DESCRIPTIVE NOTE: 348P.

ABSTRACT: THIS BOOK REVIEWS THE METHODS USED TO REMOVE TOXIC CHEMICALS FROM DRINKING WATER INCLUDING TOXIC SUBSTANCES FORMED BY CHLORINATION. IT ALSO PRESENTS A DISCUSSION OF THE NEW AND PROPOSED AMENDMENTS TO THE SAFE DRINKING WATER ACT OF 1974. CHAPTER TOPICS INCLUDE: (1) LEGISLATION; (2) TRIHALOMETHANES; (3) THE DETOXIFICATION

PROCESSES; (4) DESIGN OF ACTIVATED CARBON SYSTEMS; (5) ANALYTICAL METHODS; (6) ECONOMIC ANALYSIS; AND (7) REMOVAL OF INORGANIC CONTAMINANTS. THE BIBLIOGRAPHY LISTS GOVERNMENT AND OTHER REPORTS PERTAINING TO TOPICS COVERED IN THIS DOCUMENT. (CS)

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656 ($48.00)

IRIS ACCESSION NUMBER: EW003802

PUBLICATION DATE: 78

TITLE: INORGANIC CHEMICAL INDUSTRY: PROCESSES, TOXIC EFFLUENTS AND POLLUTION CONTROL.

PERSONAL AUTHOR: SITTIG, MARSHALL

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMICAL ANALYSIS; *CHEMICAL INDUSTRY; *EFFLUENTS; POLLUTION; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *TOXIC SUBSTANCES; *EFFLUENTS

DESCRIPTIVE NOTE: 351P.

ABSTRACT: THIS BOOK PROVIDES DIRECTIONS TO THE CHEMICAL INDUSTRY FOR MAKING VARIOUS INORGANIC CHEMICALS. THE ARRANGEMENT IS ENCYCLOPEDIC STARTING WITH ALUMINA AND ENDING WITH ZINC COMPOUNDS. THE PROCESS DETAILS PROVIDE A WIDE CHOICE OF RAW MATERIALS IN ACCORDANCE WITH A CHANGING ECONOMY AND PARTIAL CUTOFF OF CUSTOMARY SUPPLIES. PATENT INDEXES GIVING COMPANIES, INVENTORS, AND PATENT NUMBERS ARE PROVIDED. THE BIBLIOGRAPHY OF UTILIZED SOURCES CONSTITUTES AS LIST OF REFERENCES GIVING FURTHER DETAILS. (CS)

AVAILABILITY: NOYES DATA CORP., NOYES BLDG., PARK RIDGE, NJ 07656 ($42.00)

IRIS ACCESSION NUMBER: EW003803

PUBLICATION DATE: 78

TITLE: POTENTIOMETRIC WATER ANALYSIS.

PERSONAL AUTHOR: MIDGLEY, DEREK; TORRANCE, KENNETH

DESCRIPTOR: BIOCHEMISTRY; *CHEMICAL ANALYSIS; *EQUIPMENT UTILIZATION; *LABORATORY TECHNIQUES; POLLUTION; *POTENTIOMETERS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 409P.

ABSTRACT: THIS BOOK DRAWS TOGETHER THE EXISTING KNOWLEDGE AVAILABLE ON POTENTIOMETRY AS A TECHNIQUE FOR MEASURES OF WATER QUALITY, ESPECIALLY THE DETERMINATION OF SPECIFIC CHEMICAL SUBSTANCES. THE METHODS ARE DESCRIBED WITH MANUAL ANALYSIS IN THE LABORATORY IN MIND. THEY ARE GROUPED ACCORDING TO THEIR OPERATIONAL SIMILARITIES RATHER THAN BY THE NATURE OF THE DETERMINAND OR TYPE OF ELECTRODE. TOPIC AREAS INCLUDE: (1) ELECTROCHEMICAL PRINCIPLES; (2) ELECTRODES; (3) EQUIPMENT; (4) ANALYTICAL PRINCIPLES; (5) POTENTIOMETRIC TITRATIONS; AND (6) ANALYTICAL PRACTICES. (CS)

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($42.00)

IRIS ACCESSION NUMBER: EW003805

PUBLICATION DATE: APR 77

TITLE: WHAT WE CAN DO BEFORE THE WELL RUNS DRY.

PERSONAL AUTHOR: MITCHELL, SUZANNE; AND OTHERS

DESCRIPTOR: *CONSERVATION; *CONSUMER EDUCATION; EQUIPMENT; *NATURAL RESOURCES; *RECYCLING; *WATER POLLUTION CONTROL; *WATER QUALITY; *WATER RESOURCES; WATER SUPPLY

DESCRIPTIVE NOTE: 17P. ORDER NO. PB 267 590

ABSTRACT: THIS PAMPHLET PROVIDES A SYNOPSIS OF THE INFORMATION PRESENTED IN A BOOK ON RESIDENTIAL WATER CONSERVATION. THE TEXT HIGHLIGHTS THREE MAJOR AREAS: (1) WHAT CAN BE DONE NOW - WITHOUT COST; (2) WHAT CAN BE DONE SOON - WITH SOME EXPENDITURES; AND (3) WHAT CHANGES NEED TO BE MADE IN LAWS AND BUILDING CODES. THE TEXT ALSO DISCUSSES: (1) THE PLANS AND OPTIONS AVAILABLE TO HOMEOWNERS TO CONSERVE WATER; (2) COMMERCIALLY AVAILABLE WATER SAVING DEVICES; AND (3) ALTERNATIVES FOR DECISION-MAKERS IN BOTH PRIVATE AND PUBLIC SETTINGS. (CS)

AVAILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($4.00)

IRIS ACCESSION NUMBER: EW003806

PUBLICATION DATE: MAR 77

TITLE: NORTH MARIN'S LITTLE COMPENDIUM OF WATER SAVING IDEAS.

DESCRIPTOR: *CONSERVATION; *CONSUMER EDUCATION; ENVIRONMENTAL INFLUENCES; *EQUIPMENT MANUFACTURERS; EQUIPMENT UTILIZATION; NATURAL RESOURCES; RECYCLING; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 275P.

ABSTRACT: THIS REPORT PROVIDES INFORMATION COLLECTED BY THE NORTH MARIN COUNTY WATER DISTRICT FOR PRESERVING AND BETTER UTILIZING WATER RESOURCES. THE CONTENTS ARE DIVIDED INTO TWO MAIN SECTIONS. THE FIRST DISCUSSES WATER CONSERVATION ALTERNATIVES INCLUDING: (1) METERING AND PRICING; (2) WATER SAVING DEVICES; AND (3) LOW WATER USE LANDSCAPING. SECTION TWO IDENTIFIES MANUFACTURERS OF WATER SAVING DEVICES AND PROVIDES AN ALPHABETICAL LISTING OF THE MANUFACTURERS AND DISTRIBUTORS BOTH WITHIN AND OUTSIDE CALIFORNIA. SEVERAL CASE EXAMPLES EMPLOYING WATER SAVING DEVICES ARE DISCUSSED. (CS)

AVAILABILITY: NORTH MARIN COUNTY WATER DISTRICT, P.O. BOX 146, NAVATO, CALIFORNIA 94947 ($7.00)

INSTITUTION NAME: NORTH MARIN COUNTY WATER DISTRICT.

IRIS ACCESSION NUMBER: EW003807

PUBLICATION DATE: 77

TITLE: ENVIRONMENTAL ANALYSIS.

PERSONAL AUTHOR: EWING, GALEN W.

DESCRIPTOR: *AIR POLLUTION CONTROL; *CHEMICAL ANALYSIS; CHROMATOGRAPHY; *ENVIRONMENTAL INFLUENCES; *MEASUREMENT TECHNIQUES; *POLLUTANTS; *POLLUTION; *RESEARCH; SPECTROMETRY; TECHNOLOGY; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 368P.

ABSTRACT: THIS BOOK CONTAINS A COLLECTION OF PAPERS ADDRESSING THE IMPORTANCE OF ENVIRONMENTAL CONTAMINATION AND THE NEED TO DEVELOP ANALYTICAL METHODS TO DETECT AND MEASURE POLLUTANTS. EACH RESEARCH REPORT CONTAINS AN ABSTRACT AND LIST OF REFERENCES. TOPIC AREAS DISCUSSED INCLUDE: (1) REMOTE SENSING; (2) WATER QUALITY; (3) SPECTROMETRY; (4) VOLTAMMETRY; (5) CHROMATOGRAPHY; (6) LABORATORY TECHNIQUES; AND (7) EQUIPMENT TECHNOLOGY. (CS)

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NEW YORK 10003 ($18.50)

IRIS ACCESSION NUMBER: EW003810

PUBLICATION DATE: DEC 76

TITLE: WPCF WASTEWATER TREATMENT PLANT OPERATOR TRAINING PROGRAM: BASIC COURSE.

DESCRIPTOR: *AUDIOVISUAL AIDS; BEHAVIORAL OBJECTIVES; ENVIRONMENT; ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *POLLUTION; *POST SECONDARY EDUCATION; PUBLIC HEALTH; *WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: INCLUDES 287 35MM SLIDES, 10 AUDIO CASSETTES, AND MODERATOR WORKBOOKS - ORDER NO. EG100, $300.00; STUDENT MATERIALS ONLY - ORDER NO. EG010, $7.00

ABSTRACT: THIS TRAINING PROGRAM IS DESIGNED FOR THOSE INDIVIDUALS ALREADY EMPLOYED AS WASTEWATER TREATMENT PLANT OPERATORS AS WELL AS THOSE NEW TO THE FIELD. THE COURSE SERVES AS A BASIC INTRODUCTION AND UTILIZES A SYNCHRONIZED PRESENTATION INCORPORATING SLIDES AND AUDIO CASSETTES. THIS PROGRAM MAY BE USED INDIVIDUALLY OR WITH GROUPS. THE UNITS ARE CONCERNED WITH SEWAGE CHARACTERISTICS, TREATMENT METHODS, TESTS AND SAMPLING, RECORD KEEPING, MAINTENANCE AND SAFETY. AT THE END OF EACH UNIT THE STUDENT IS PROVIDED WITH A SUMMARY AND REVIEW EXERCISE. PRE- AND POST-TRAINING EVALUATION MECHANISMS ARE PROVIDED. A PROGRAM GLOSSARY IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., WASHINGTON, D.C. 20037 ($300.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW003811

PUBLICATION DATE: JAN 73

TITLE: ON-SITE WASTE MANAGEMENT, VOL. I.

PERSONAL AUTHOR: GOLDSTEIN, STEVEN N.; AND OTHERS

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *LAND USE; POLLUTION; RESEARCH; SANITATION; *SEPTIC TANKS; *SOILS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ONSITE SEWAGE TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 55P. VOLUMES I, II, AND III (EW003811-EW003813) PURCHASED AS A UNIT ($5.00); FOR VOLUMES IV, V AND VI SEE EW003814-EW003816

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH CONTAINS THE PAPERS PRESENTED AT A SEWAGE DISPOSAL CONFERENCE IN 1973. THIS VOLUME DISCUSSES ONSITE WASTE MANAGEMENT AND INCLUDES THE TOPICS: (1) COMMUNITY SYSTEMS VS. ONSITE SYSTEMS; (2) THE ROLE OF TILE DRAINAGE; (3) INVERTED DISPOSAL FIELD SYSTEMS; AND (4) SOIL INFILTRATION AND EVAPO-TRANSPIRATION. (CS)

AVAILABILITY: HANCOR, INC., P.O. BOX 1047, FINDLAY, OHIO 45840

IRIS ACCESSION NUMBER: EW003812

PUBLICATION DATE: JAN 73

TITLE: ON-SITE WASTE MANAGEMENT, VOL. II.

PERSONAL AUTHOR: WINNEBERGER, JOHN TIMOTHY

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; LAND USE; POLLUTION; *PUBLIC HEALTH; RESEARCH; SANITATION; SEWERS; *VIRUSES; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *NITROGEN; *ONSITE WASTEWATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 53P. VOLUMES I, II, AND III (EW003811-EW003813) PURCHASED AS A UNIT ($5.00); FOR VOLUMES IV, V AND VI SEE EW003814-EW003816

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH CONTAINS THE PAPERS PRESENTED AT A SEWAGE DISPOSAL CONFERENCE IN 1973. THIS VOLUME DISCUSSES THE QUALITATIVE AND QUANTITATIVE POINTS OF THE NITROGEN CYCLE IN RELATION TO ONSITE WASTE MANAGEMENT SYSTEMS AND THE SETBACK NEEDED TO PROTECT WATER SUPPLIES FROM VIRUSES. REFERENCES ARE PROVIDED. (CS)

AVAILABILITY: HANCOR, INC., P.O. BOX 1047, FINDLAY, OHIO 45840

IRIS ACCESSION NUMBER: EW003813

PUBLICATION DATE: JAN 73

TITLE: ON-SITE WASTE MANAGEMENT, VOL. III: CORRELATION OF THREE TECHNIQUES FOR DETERMINING SOIL PERMEABILITY.

PERSONAL AUTHOR: WINNEBERGER, JOHN TIMOTHY

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *LAND USE; POLLUTION; PUBLIC HEALTH; RESEARCH; SANITATION; *SEPTIC TANKS; *SOILS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ONSITE WASTEWATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 29P. VOLUMES I, II, AND III (EW003811-EW003813) PURCHASED AS A UNIT ($5.00); FOR VOLUMES IV, V, AND VI SEE EW003814-EW003816

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH CONTAINS THE PAPERS PRESENTED AT SEVERAL SEWAGE DISPOSAL CONFERENCES SPONSORED IN THE EARLY 1970'S. THIS VOLUME DISCUSSES INDIVIDUAL SEWAGE DISPOSAL SYSTEMS AND INCLUDES THE TOPICS: (1) HEALTH HAZARDS ASSOCIATED WITH WASTEWATER MANAGEMENT; (2) POLLUTANT LOADS; (3) THE PERFORMANCE OF SEPTIC TANKS; AND (4) THE ECONOMICS OF VARIOUS DISPOSAL SYSTEMS. REFERENCES ARE PROVIDED FOR EACH PAPER. (CS)

AVAILABILITY: HANCOR, INC., P.O. BOX 1047, FINDLAY, OHIO 45840

IRIS ACCESSION NUMBER: EW003814

PUBLICATION DATE: JAN 73

TITLE: ON-SITE WASTE MANAGEMENT, VOL. IV.

PERSONAL AUTHOR: OTIS, R. J.; AND OTHERS

DESCRIPTOR: *ECONOMICS; *ENVIRONMENTAL INFLUENCES; LAND USE; POLLUTION; PUBLIC HEALTH; RESEARCH; SANITATION; *SEPTIC TANKS; *SOILS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ONSITE WASTEWATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 40P. VOLUMES IV, V, AND VI (EW003814-EW003816) PURCHASED AS A UNIT ($5.00); FOR VOLUMES I, II, AND III SEE EW003811-EW003813

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH CONTAINS THE PAPERS PRESENTED AT SEVERAL SEWAGE DISPOSAL CONFERENCES SPONSORED IN THE EARLY 1970'S. THIS VOLUME DISCUSSES INDIVIDUAL SEWAGE DISPOSAL SYSTEMS AND INCLUDES THE TOPICS: (1) HEALTH HAZARDS ASSOCIATED WITH WASTEWATER MANAGEMENT; (2) POLLUTANT LOADS; (3) THE PERFORMANCE OF SEPTIC TANKS; AND (4) THE ECONOMICS OF VARIOUS DISPOSAL SYSTEMS. (CS)

AVAILABILITY: HANCOR, INC., P.O. BOX 1047, FINDLAY, OHIO 45840

IRIS ACCESSION NUMBER: EW003815

PUBLICATION DATE: JAN 76

TITLE: ON-SITE WASTE MANAGEMENT, VOL. V: THE PRINCIPLE OF ALTERNATION OF SUBSURFACE WASTEWATER DISPOSAL FIELDS.

PERSONAL AUTHOR: WINNEBERGER, JOHN TIMOTHY

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *LAND USE; POLLUTION; RECYCLING; RESEARCH; SANITATION; *SEPTIC TANKS; *SOILS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ONSITE WASTEWATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 15P. VOLUMES IV, V, AND VI (EW003814-EW003816) PURCHASED AS A UNIT ($5.00); FOR VOLUMES I, II, AND III SEE EW003811-EW003813

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH DISCUSSES ONSITE WASTE MANAGEMENT. THIS VOLUME IS CONCERNED WITH THE PRINCIPLE OF ALTERNATION OF SUBSURFACE WASTEWATER DISPOSAL FIELDS. REFERENCES ARE PROVIDED. (CS)

AVAILABILITY: HANCOR, INC., P.O. BOX 1047, FINDLAY, OHIO 45840

IRIS ACCESSION NUMBER: EW003816

PUBLICATION DATE: JUL 77

TITLE: ON-SITE WASTE MANAGEMENT, VOL. VI.

PERSONAL AUTHOR: WINNEBERGER, JOHN TIMOTHY; BURGEL, JAMES A.

DESCRIPTOR: ENGINEERING; *ENVIRONMENTAL INFLUENCES; *LAND USE; *MANAGEMENT; POLLUTION; RESEARCH; SANITATION; SOILS; TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *ONSITE WASTEWATER TREATMENT; PRESSURE SEWERS; *WASTEWATER MANAGEMENT DISTRICTS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 39P. VOLUMES IV, V, AND VI (EW003814-EW003816) PURCHASED AS A UNIT ($5.00); FOR VOLUMES I, II, AND III SEE EW003811-EW003813

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH DISCUSSES ONSITE WASTE MANAGEMENT. THIS VOLUME IS DEVOTED TO MAINTENANCE DISTRICTS AND PRESSURE SEWERS. EACH TOPIC IS DISCUSSED FROM VARIOUS VIEWPOINTS INCLUDING THE ENGINEERING APPROACHES AND THE MANAGEMENT OPERATIONS. REFERENCES ARE PROVIDED. (CS)

AVAILABILITY: HANCOR, INC., P.O. BOX 1047, FINDLAY, OHIO 45840

IRIS ACCESSION NUMBER: EW003817

PUBLICATION DATE: 68

TITLE: DEMINERALIZATION BY ION EXCHANGE IN WATER TREATMENT AND CHEMICAL PROCESSING OF OTHER LIQUIDS.

PERSONAL AUTHOR: APPLEBAUM, SAMUEL B.

DESCRIPTOR: *ANION EXCHANGE; CATION ABSORPTION; DESALINATION; *DEMINERALIZATION; *EQUIPMENT; *FACILITIES; *ION EXCHANGE; *OPERATIONS (WATER); POST SECONDARY EDUCATION; TECHNICAL REPORTS; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 389P.

ABSTRACT: THIS BOOK PRESENTS THE LATEST DEVELOPMENTS IN DEMINERALIZATION BY ION EXCHANGE WITH SPECIAL EMPHASIS ON ENGINEERING AND PRACTICAL ASPECTS. IT STARTS WITH A BRIEF HISTORY OF ION EXCHANGE AND THE INDUSTRIAL NEEDS THAT LED TO DEMINERALIZATION. SEVERAL EARLY CHAPTERS ARE DEVOTED TO THE SUBJECT OF PRETREATMENT. GUIDELINES ARE PRESENTED FOR THE PROPER APPLICATION OF THE MANY AVAILABLE RESINS AND EQUIPMENT DESIGNS. THE TEXT SHOULD AID THE READER, FOR EXAMPLE, IN MAKING SELECTIONS FROM THE FOLLOWING POSSIBLE OPTIONS: (1) A DEMINERALIZER OR AN EVAPORATOR; (2) A DEMINERALIZER OR A HOT LIME ZIOLITE PLANT OR A DESILICIZER; (3) A TWO-BED, THREE-BED, OR FOUR-BED DEMINERALIZER; AND (4) MANY OTHER SIMILAR CHOICES. DATA ARE PROVIDED ON THE DEMINERALIZER EQUIPMENT. TECHNICAL CALCULATIONS OF FOUR TYPICAL CASE HISTORIES ARE INCLUDED. IN ADDITION, THE DESIGN OF MANY ACTUAL FULL-SCALE PLANTS ARE DESCRIBED FOR A NUMBER OF APPLICATIONS. (BB)

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NEW YORK 10003 ($39.00)

IRIS ACCESSION NUMBER: EW003819

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL HEALTH CRITERIA 2: POLYCHLORINATED BIPHENYL AND TERPHENYLS.

DESCRIPTOR: AIR POLLUTION CONTROL; *BIOCHEMISTRY; *ENVIRONMENTAL INFLUENCES; *ORGANIC CHEMISTRY; PHYSIOLOGY; *POLLUTION; *PUBLIC HEALTH; RESEARCH; WATER POLLUTION CONTROL; *PCB; *PCT

DESCRIPTIVE NOTE: 85P.

ABSTRACT: THE WORLD HEALTH ORGANIZATION PROVIDES IN THIS DOCUMENT A COMPILATION, REVIEW, AND EVALUATION OF AVAILABLE INFORMATION ON THE BIOLOGICAL EFFECTS OF POLYCHLORINATED BIPHENYLS (PCB) AND TERPHENYLS (PCT) THAT INFLUENCE MAN'S HEALTH. INCLUDED IS A SUMMARY OF THE MAJOR ISSUES AND SUGGESTIONS FOR ADDITIONAL RESEARCH, THE FINDINGS ON WHICH THE EVALUATION OF THE HEALTH RISKS ARE BASED, AND THE RISKS FROM EXPOSURE TO THE SPECIFIC AGENTS. REPRESENTATIVE CHAPTERS DISCUSS THE CHEMICAL PROPERTIES OF PCB'S AND PCT'S SOURCES OF ENVIRONMENTAL POLLUTION, DISTRIBUTION AND TRANSFORMATION, METABOLISM, EXPERIMENTAL STUDIES, AND EPIDEMIOLOGICAL AND CLINICAL STUDIES OF THE EFFECTS. (CS)

AVAILABILITY: WHO PUBLICATIONS CENTRE, 49 SHERIDAN AVE., ALBANY, NY 12210 ($4.00)

INSTITUTION NAME: UNITED NATIONS ENVIRONMENT PROGRAMME.; WORLD HEALTH ORGANIZATION.

IRIS ACCESSION NUMBER: EW003821

PUBLICATION DATE: 78

TITLE: WPCF WASTEWATER TREATMENT PLANT OPERATOR TRAINING PROGRAM, INTERMEDIATE COURSE: STUDENT WORKBOOK, VOL. A, PARTS 1 AND 2.

DESCRIPTOR: *ACTIVATED SLUDGE; AUDIOVISUAL AIDS; CERTIFICATION; *CLARIFICATION (WASTEWATER); ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *OPERATIONS (WASTEWATER); POLLUTION; *POST SECONDARY EDUCATION; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 244P. COURSE MATERIALS: 35 MM SLIDES (340), 9 TAPE CASSETTES, ADMINISTRATOR HANDBOOK, CARRYING CASE, AND STUDENT WORKBOOK (PARTS 1 AND 2) - ORDER NO. E0291, $400.00; STUDNET WORKBOOK ONLY - ORDER NO. E0292, $4.50; OTHER VOLUMES: EW003822 AND EW003823

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF SELF-INSTRUCTIONAL WORKBOOKS FOR TRAINING WASTEWATER TREATMENT PLANT OPERATORS IN THE BASIC FUNCTIONS OF FACILITY OPERATION. THE WORKBOOK CONTAINS A PRE- AND POST-TEST QUESTIONNAIRE FOR EACH UNIT AS WELL AS SELF-TESTS AS INTERIM GUIDES. THE UNITS DISCUSSED IN THE VOLUME ARE A GENERAL INTRODUCTION, THE COMMUNITY WASTEWATER SYSTEM, PRE-TREATMENT, CLARIFICATION, AND ACTIVATED SLUDGE. (CS)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., WASHINGTON, D.C. 20037

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW003822

PUBLICATION DATE: 78

TITLE: WPCF WASTEWATER TREATMENT PLANT OPERATOR TRAINING PROGRAM, INTERMEDIATE COURSE: STUDENT WORKBOOK, VOL. B.

DESCRIPTOR: AUDIOVISUAL AIDS; CERTIFICATION; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *OPERATIONS (WASTEWATER); POLLUTION; *POST SECONDARY EDUCATION; *SLUDGE; *TRICKLING FILTERS; *WASTE STABILIZATION PONDS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 144P. COURSE MATERIALS: 35 MM SLIDES (APPROX. 230), 7 TAPE CASSETTES, ADMINISTRATOR HANDBOOK, CARRYING CASE, AND STUDENT WORKBOOK - ORDER NO. E0293,

$300.00; STUDENT WORKBOOK ONLY - ORDER NO. E0294, $3.50; OTHER VOLUMES: EW003821 AND EW003823

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF SELF-INSTRUCTIONAL WORKBOOKS FOR TRAINING WASTEWATER TREATMENT PLANT OPERATORS IN THE BASIC FUNCTIONS OF FACILITY OPERATION. THE WORKBOOK CONTAINS A PRE- AND POST-TEST QUESTIONAIRE FOR EACH UNIT AS WELL AS SELF-TESTS AS INTERIM GUIDES. THE UNITS DISCUSSED IN THIS VOLUME ARE WASTE STABILIZATION PONDS, TRICKLING FILTERS, AND SLUDGE HANDLING AND DIGESTION (CS)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., WASHINGTON, D.C. 20037

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW003823

PUBLICATION DATE: 78

TITLE: WPCF WASTEWATER TREATMENT PLANT OPERATOR TRAINING PROGRAM, INTERMEDIATE COURSE: STUDENT WORKBOOK, VOL. C.

DESCRIPTOR: AUDIOVISUAL AIDS; CERTIFICATION; *DISINFECTION; *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *OPERATIONS (WASTEWATER); POLLUTION; *POST SECONDARY EDUCATION; *PUMPS; *SAFETY; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 90P. COURSE MATERIALS: 35 MM SLIDES (APPROX. 270), 7 TAPE CASSETTES, ADMINISTRATOR HANDBOOK, CARRYING CASE, AND STUDENT WORKBOOK - ORDER NO. E0295, $300.00; STUDENT WORKBOOK ONLY - ORDER NO. E0296, $3.50; OTHER VOLUMES: EW003821 AND EW003822

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF SELF-INSTRUCTIONAL WORKBOOKS FOR TRAINING WASTEWATER TREATMENT PLANT OPERATORS IN THE BASIC FUNCTIONS OF FACILITY OPERATION. THE WORKBOOK CONTAINS A PRE- AND POST-TEST QUESTIONNAIRE FOR EACH UNIT AS WELL AS SELF-TESTS AS INTERIM GUIDES. THE UNITS DISCUSSED IN THIS VOLUME ARE DISINFECTION, SAFETY, AND PUMPING. (CS)

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., WASHINGTON, D.C. 20037

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW003824

ERIC ACCESSION NUMBER: ED141158

PUBLICATION DATE: 74

TITLE: PESTICIDES AND THE MARINE ENVIRONMENT. A LEARNING EXPERIENCE FOR COASTAL AND OCEANIC AWARENESS STUDIES, NO. 237. PROJECT COAST .

INSTITUTION CODE: BBB14665

SPONSORING AGENCY CODE: RMQ66000

DESCRIPTOR: *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MARINE BIOLOGY; *OCEANOLOGY; *PESTICIDES; POLLUTION; SECONDARY GRADES; *SECONDARY SCHOOL SCIENCE; TEACHING GUIDES; UNITS OF STUDY; PROJECT COAST

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 20P.; FOR RELATED DOCUMENTS, SEE SE 022 662-687

ISSUE: RIENOV77

ABSTRACT: THIS DOCUMENT, FOR SECONDARY SCHOOL STUDENTS, IS DESIGNED TO PROVIDE AN INTRODUCTION TO THE EFFECTS OF PESTICIDES IN ORGANISMS AND THE ENVIRONMENT. INCLUDED ARE BACKGROUND MATERIALS FOR THE TEACHER, CHARTS AND GRAPHS OF THE EFFECT OF CHEMICALS ON ORGANISMS, QUESTIONS FOR DISCUSSION AND STUDY, AND REFERENCES. (RH)

INSTITUTION NAME: DELAWARE UNIV., NEWARK. COLL., OF EDUCATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003825

ERIC ACCESSION NUMBER: ED132242

PUBLICATION DATE: 75

TITLE: APPLY PESTICIDES CORRECTLY. A PROGRAMMED INSTRUCTION LEARNING PROGRAM FOR PRIVATE APPLICATORS.

INSTITUTION CODE: BBB06039

DESCRIPTOR: AGRICULTURAL EDUCATION; EQUIPMENT UTILIZATION; FEDERAL LEGISLATION; *PESTICIDES; *PROGRAMED INSTRUCTION; PROGRAMED TEXTS; VOCATIONAL AGRICULTURE

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$8.69 PLUS POSTAGE.

DESCRIPTIVE NOTE: 169P.

ISSUE: RIEMAY77

ABSTRACT: THIS PROGRAMED TEXT ON APPLICATION OF PESTICIDES PROVIDES PRACTICAL INFORMATION NEEDED TO MEET THE MINIMUM FEDERAL REGULATION REQUIREMENTS FOR THE USE OF CERTAIN PESTICIDES. EACH CHAPTER CONSISTS OF PRETEST, POSTTEST, AND LEARNING PROGRAM, WHICH CONSISTS OF A SERIES OF ITEMS (I.E. MULTIPLE CHOICE QUESTIONS AND WORD MATCHING) REQUIRING LEARNER RESPONSES AND ALLOWING IMMEDIATE FEEDBACK TO THE RESPONSES. THE SEVEN CHAPTERS COVER PEST AND PEST CONTROL, PESTICIDES, LABELS AND LABELING, APPLICATION EQUIPMENT, USE AND MAINTENANCE OF PESTICIDE APPLICATION EQUIPMENT, USING PESTICIDES SAFELY, AND THE ENVIRONMENT AND THE LAW. (NJ)

REPORT NUMBER: VT-103-442

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003826

ERIC ACCESSION NUMBER: ED123043

PROGRAM AREA: 95

PUBLICATION DATE: 75

TITLE: PESTICIDES. (STUDENT RESOURCE BOOK VI IN THE INVESTIGATING YOUR ENVIRONMENT PROGRAM).

INSTITUTION CODE: DUN06181

SPONSORING AGENCY CODE: BBB06621; RMQ66000

DESCRIPTOR: CRITICAL READING; *ENVIRONMENTAL EDUCATION; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; *PRODUCTIVITY; *RESOURCE MATERIALS; SCIENCE COURSE IMPROVEMENT PROJECT; SCIENCE EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL SCIENCE; BIOLOGICAL SCIENCES CURRICULUM STUDY; BSCS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTIVE NOTE: 48P.; FOR RELATED DOCUMENTS, SEE ED 116 901-902 AND SE 019 526-533

ISSUE: RIESEP76

ABSTRACT: THESE RESOURCE PAPERS ENCOURAGE THE STUDENT TO DISCOVER FOR HIMSELF THE CONTRIBUTIONS TO A PROBLEM MADE THROUGH ORIGINAL LITERATURE. SINCE SOME OF THE PAPERS ARE CONTROVERSIAL OR CONTRADICT OTHER PAPERS, THE STUDENT WILL NEED TO EVALUATE THEM TO DETERMINE HIS POSITION. IT IS HOPED THAT THESE PAPERS WILL ALSO FOSTER AN APPRECIATION OF THE WORK OF THE SCIENTISTS INVOLVED. THIS DOCUMENT CONCENTRATES ON INSECTICIDES: PROBLEMS OF THEIR USE, HOW PEOPLE ARE INVESTIGATING THEM, AND SUGGESTIONS FOR FUTURE COURSES OF ACTION. IT BEGINS WITH AN OVERVIEW OF PESTICIDES, THEIR USES AND EFFECTS. THE NEXT TWO ARTICLES PRESENT THE CASE THAT MAN MAY SOMETIMES CREATE PESTS BY ALTERING THE ENVIRONMENT. THE NEXT SEVERAL ARTICLES PRESENT THE VIEW THAT SMALL AMOUNTS OF PESTICIDES MAY EVENTUALLY BE FATAL TO THE POPULATION, INDICATE THE POTENTIAL DANGER OF RESISTANT PREY TO PREDATORS, AND SHOW HOW CERTAIN CHEMICALS INTERACT TO INCREASE DANGER TO LIFE. THE NEXT ARTICLE EXAMINES SOME ALTERNATIVE METHODS FOR CONTROLLING INSECTS, WHILE THE FOLLOWING ARTICLE DESCRIBES INTENSIVE WORK ON ONE PARTICULAR METHOD OF ALTERNATIVE CONTROL. THE LAST ARTICLE GIVES THE RESULTS OF A SURVEY ON HOW PESTICIDES ARE STORED IN GROCERY STORES. (LS)

AVAILABILITY: ADDISON-WESLEY PUBLISHING COMPANY, SOUTH STREET, READING, MASSACHUSETTS 01867 (CODE NUMBER 0938, $1.80 PLUS POSTAGE AND HANDLING)

INSTITUTION NAME: BIOLOGICAL SCIENCES CURRICULUM STUDY, BOULDER, COLO.

SPONSORING AGENCY NAME: NATIONAL INST. OF EDUCATION (DHEW), WASHINGTON, D.C.; OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003827

ERIC ACCESSION NUMBER: ED119620

PUBLICATION DATE: DEC 75

TITLE: A COMPARATIVE ANALYSIS OF FOUR INDIVIDUALIZED INSTRUCTIONAL DELIVERY SYSTEMS WITH ADULT LEARNERS. FINAL REPORT.

PERSONAL AUTHOR: HOLZBAUER, IDA; FLORELL, ROBERT J.

INSTITUTION CODE: BBB12981

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: ADULT EDUCATION; *AGRICULTURAL CHEMICAL OCCUPATIONS; AGRICULTURAL EDUCATION; AUDIOVISUAL INSTRUCTION; COMPARATIVE ANALYSIS; CURRICULUM DEVELOPMENT; *DELIVERY SYSTEMS; *EDUCATIONAL METHODS; EDUCATIONAL RESEARCH; EDUCATIONAL STRATEGIES; FARMERS; INDIVIDUALIZED INSTRUCTION; INSTRUCTIONAL DESIGN; *METHODS RESEARCH; MULTIMEDIA INSTRUCTION; *PESTICIDES; *SAFETY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$14.05 PLUS POSTAGE

DESCRIPTIVE NOTE: 273P.

ISSUE: RIEJUL76

ABSTRACT: BECAUSE MANY PESTICIDES ARE POTENTIALLY INJURIOUS TO THEIR USERS AND CAN HAVE A DELETERIOUS EFFECT ON THE ENVIRONMENT WHEN MISUSED, THE ENVIRONMENTAL PROTECTION AGENCY HAS RESTRICTED THE USE OF SOME CHEMICALS TO CERTIFIED USERS ONLY. A PROGRAM WAS DEVELOPED TO ASSESS THE NEED FOR TRAINING IN PESTICIDE USE, TO DEVELOP THE NECESSARY CURRICULUM, TO CONDUCT A PILOT TRAINING PROGRAM, AND TO ASSESS THE RESULTS AND THE COSTS. FOUR INSTRUCTIONAL DELIVERY SYSTEMS (CONVENTIONAL READING, SLIDE-TAPE, PRINTED/PROGRAMED, AND AUDIO-ASSISTED) WERE DEVELOPED TO TEACH A CURRICULUM CENTERED AROUND: (1) COMMON PESTS, (2) LABEL READING, (3) CALIBRATION, (4) ENVIRONMENTAL CONSIDERATIONS, AND (5) BASIC SAFETY. EFFECTIVENESS TESTS WERE STATISTICALLY ANALYZED, AND THE AUDIO-ASSISTED METHOD WAS SHOWN TO BE SIGNIFICANTLY INFERIOR TO THE OTHER THREE METHODS. A DISCUSSION OF THE RESEARCH METHODOLOGY AND STATISTICAL RESULTS ARE PROVIDED, AND THE APPENDIX INCLUDES EXTENSIVE SAMPLES OF THE EXPERIEMNTAL CURRICULA. (EMH)

INSTITUTION NAME: NEBRASKA UNIV., LINCOLN. COOPERATIVE EXTENSION SERVICE.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003830

PUBLICATION DATE: 78

TITLE: RESEARCH ON URBAN HYROLOGY, VOLUME 2.

DESCRIPTOR: *GLOBAL APPROACH; *HYDROLOGY; *INTERNATIONAL PROGRAMS; *MODELS; NATURAL RESOURCES; *RESEARCH; RESEARCH REVIEWS; *URBAN AREAS; *WATER POLLUTION CONTROL; *WATER RESOURCES

DESCRIPTIVE NOTE: 265P.

ABSTRACT: THIS DOCUMENT IS THE SECOND IN A SERIES DISCUSSING RESEARCH ON URBAN HYDROLOGY. IT CONTAINS SEVEN STATE-OF-THE-ART REPORTS FOR THE COUNTRIES OF FRANCE, THE FEDERAL REPUBLIC OF GERMANY, INDIA, THE NETHERLANDS, NORWAY, SWEDEN, AND POLAND. EACH REPORT CONTANS AN INTRODUCTION, A DISCUSSION OF THE ON-GOING RESEARCH, A HYDROLOGIC MODEL, AND A LIST OF REFERENCES. (CS)

AVAILABILITY: UNIPUB, INC., P.O. BOX 433, NEW YORK, NY 10016 ($12.00)

INSTITUTION NAME: INTERNATIONAL HYDROLOGICAL PROGRAMME.

IRIS ACCESSION NUMBER: EW003831

ERIC ACCESSION NUMBER: ED156520

PUBLICATION DATE: NOV 76

TITLE: AQUATIC MICROBIOLOGY LABORATORY MANUAL.

PERSONAL AUTHOR: COOPER, ROBERT C.; AND OTHERS

INSTITUTION CODE: BBB07746

SPONSORING AGENCY CODE: BBB06039

DESCRIPTOR: BIOLOGY; COLLEGE SCIENCE; *ENVIRONMENT; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *MICROBIOLOGY; *POST SECONDARY EDUCATION; PUBLIC HEALTH; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; WATER QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$12.71 PLUS POSTAGE.

DESCRIPTIVE NOTE: 230P.

ISSUE: RIENOV78

ABSTRACT: THIS LABORATORY MANUAL PRESENTS INFORMATION AND TECHNIQUES DEALING WITH AQUATIC MICROBIOLOGY AS IT RELATES TO ENVIRONMENTAL HEALTH SCIENCE, SANITARY ENGINEERING, AND ENVIRONMENTAL MICROBIOLOGY. THE CONTENTS ARE DIVIDED INTO THREE CATEGORIES: (1) ECOLOGICAL AND PHYSIOLOGICAL CONSIDERATIONS; (2) PUBLIC HEALTH ASPECTS; AND (3)MICROBIOLOGY OF WATER AND WASTEWATER TREATMENT. EACH CATEGORY CONTAINS A SERIES OF EXPERIMENTS PERTINENT TO THAT AREA OF STUDY. THESE EXPERIMENTS OUTLINE THE PURPOSE, GENERAL REFERENCES, INTRODUCTORY INFORMATION, APPARATUS, AND REAGENTS. SCHEMATICS ARE PROVIDED FOR COMPARISON OF DATA COLLECTED AS AN AID FOR DATA ANALYSIS. (CS)

GRANT NUMBER: EPA-T-900457-01-4

AVAILABILITY: ASSOCIATION OF ENVIRONMENTAL ENGINEERING PROFESSORS, ATTN: DR. MICHAEL J. HUMENICK, DEPT. OF CIVIL ENGINEERING, UNIVERSITY OF TEXAS AT AUSTIN, AUSTIN, TEXAS 78712 ($7.00, PAYMENT MUST ACCOMPANY ALL ORDERS)

INSTITUTION NAME: ASSOCIATION OF ENVIRONMENTAL ENGINEERING PROFESSORS.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C.

IRIS ACCESSION NUMBER: EW003832

ERIC ACCESSION NUMBER: ED157758

PUBLICATION DATE: JUN 76

TITLE: CHEMISTRY FOR POLLUTION CONTROL.

PERSONAL AUTHOR: EVERSON, LARRY

INSTITUTION CODE: HWP11131

SPONSORING AGENCY CODE: BBB12867

DESCRIPTOR: *CHEMICAL ANALYSIS; CHEMISTRY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *SECONDARY SCHOOL SCIENCE; *WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 38P.

ISSUE: RIEDEC78

ABSTRACT: THIS BOOKLET PRESENTS SOME METHODS OF QUANTITATIVE CHEMICAL ANALYSIS CURRENTLY USED IN THE FIELD OF FRESH WATER POLLUTION CONTROL. ONLY THOSE TESTS THAT MAY BE PERFORMED WITH LITTLE OR NO SPECIAL REAGENTS OR PIECES OF EQUIPMENT ARE LISTED. THE BOOKLET ADDRESSES THE FOLLOWING DETERMINATIONS: (1) ACIDITY; (2) ALKALINITY; (3) CHLORIDE; (4) HARDNESS; (5) OXYGEN DISSOLVED; (6) PH VALUE; (7) PHOSPHATE, ALL FORMS; (8) SOLIDS, SUSPENDED; AND (9) SOLIDS, TOTAL. (AUTHOR/RH)

INSTITUTION NAME: SEMINOLE COUNTY BOARD OF PUBLIC INSTRUCTION, SANFORD, FLA.

SPONSORING AGENCY NAME: FLORIDA STATE DEPT. OF EDUCATION, TALLAHASSEE. OFFICE OF ENVIRONMENT EDUCATION.

IRIS ACCESSION NUMBER: EW003833

ERIC ACCESSION NUMBER: ED157686

PUBLICATION DATE: 72

TITLE: A CONCEPTUAL ANALYSIS OF THE ECONOMIC EFFECTS OF AN EFFLUENT CHARGE ON AN INDUSTRY—AN EXEMPLARY ENVIRONMENTAL PROBLEM-SOLVING AND POLICY DEVELOPMENT AID DESIGNED FOR INSTRUCTIONAL PURPOSES.

PERSONAL AUTHOR: HORN, B. RAY

INSTITUTION CODE: BBB04491

DESCRIPTOR: CONSERVATION (ENVIRONMENT); ECONOMIC FACTORS; ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *MODELS; *PROBLEM SOLVING; SCIENCE EDUCATION; *WATER POLLUTION CONTROL; WATER RESOURCES; *EFFLUENTS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 17P.; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIEDEC78

ABSTRACT: THIS PAPER IS ADDRESSED TO THE STUDENT ALREADY FAMILIAR WITH BASIC ECONOMIC TERMS AND CONCEPTS. IT ANALYZES SOME EXISTING POLICY ALTERNATIVES BY WHICH SOCIOPOLITICAL UNITS CAN ATTEMPT TO MODIFY ENVIRONMENTAL BEHAVIOR. THE PRIMARY OBJECTIVE OF THE PAPER IS TO CONSTRUCT A THEORETICAL MODEL OF PROBABILISTIC EFFECTS THAT AN EFFLUENT CHARGE HAS ON AN INDUSTRY. APPLICATION OF A PORTION OF THE MODEL IS GIVEN, ALONG WITH AN EVALUATION OF THE COMPLETED TASKS BY SPECIFYING ADDITIONAL ASSUMPTIONS, LIMITATIONS, AND ASPECTS NEEDING FURTHER STUDY. REFERENCES ARE GIVEN. (AUTHOR/MA)

INSTITUTION NAME: MICHIGAN UNIV., ANN ARBOR. SCHOOL OF NATURAL RESOURCES.

IRIS ACCESSION NUMBER: EW003834

ERIC ACCESSION NUMBER: ED155036

PUBLICATION DATE: OCT 77

TITLE: EARTH TREK...EXPLORE YOUR ENVIRONMENT.

PERSONAL AUTHOR: SCHNEIDER, GERALD

INSTITUTION CODE: BBB10431

DESCRIPTOR: *ACTIVISM; AIR POLLUTION CONTROL; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; PESTICIDES; *POLLUTION; *SECONDARY EDUCATION; WASTES; WATER POLLUTION CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 43P.; COLORED DRAWINGS MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS PUBLICATION INTRODUCES CHILDREN TO WATER, AIR, AND NOISE POLLUTION, SOLID WASTE DISPOSAL, AND PESTICIDE USE PROBLEMS. SEVERAL POLLUTION PROBLEMS ARE EXPLAINED AND THE IMPORTANCE OF SOLVING THEM IS STRESSED. SOME CONCEPTS SUCH AS RECYCLING, CLOSED SYSTEMS, AND ENVIRONMENTS THAT ARE RELATED TO POLLUTION PROBLEMS ARE ALSO INTRODUCED. EACH CHAPTER INCLUDES INTRODUCTORY QUESTIONS, A DISCUSSION OF THE PROBLEM, A CHECKLIST FOR ACTION, AND A SITUATION TO ANALYZE. APPENDICES SUMMARIZE U.S. ENVIRONMENTAL PROTECTION AGENCY LAWS, LIST EPA REGIONAL OFFICES, AND LIST SOME BOOKS AND FILMS ABOUT POLLUTION. A GLOSSARY IS ALSO INCLUDED. (MR)

REPORT NUMBER: EPA-335

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 055-000-00170-7; NO PRICE QUOTED)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. PRESIDENT'S ENVIRONMENTAL MERIT AWARDS PROGRAM.

IRIS ACCESSION NUMBER: EW003835

ERIC ACCESSION NUMBER: ED155037

PUBLICATION DATE: DEC 77

TITLE: ENVIRONMENTAL QUALITY - 1977: THE EIGHTH ANNUAL REPORT OF THE COUNCIL ON ENVIRONMENTAL QUALITY.

INSTITUTION CODE: BBB05544

DESCRIPTOR: *ANNUAL REPORTS; ECONOMICS; ENERGY; *ENVIRONMENT; *FEDERAL GOVERNMENT; *FEDERAL LEGISLATION; LAND USE; NATURAL RESOURCES; *POLLUTION; *COUNCIL ON ENVIRONMENTAL QUALITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$24.77 PLUS POSTAGE.

DESCRIPTIVE NOTE: 471P.; CONTAINS OCCASIONAL SMALL PRINT AND PHOTOGRAPHS WHICH MAY NOT REPRODUCE WELL

ISSUE: RIEOCT78

ABSTRACT: THIS EIGHTH ANNUAL REPORT CONSIDERS THE STATE OF THE ENVIRONMENT AND NEW OR CONTINUING EFFORTS TO IMPROVE IT. THE PUBLICATION IS DIVIDED INTO TWO CHAPTERS. THE FIRST CHAPTER SUMMARIZES IMPORTANT ENVIRONMENTAL EVENTS OF THE PAST YEAR. EVENTS INCLUDE NEW LEGISLATION, COURT RULINGS, MAJOR ACCIDENTS, POLICY CHANGES, AND SIMILAR MATERIAL. THE SECOND CHAPTER SUMMARIZES CONDITIONS AND TRENDS. DATA ARE PRESENTED AND DISCUSSED IN THIS SECTION TO ILLUSTRATE IMPROVING OR DEGRADING ENVIRONMENTAL CONDITIONS. IN CHAPTER ONE, THE MAJOR SECTIONS ARE POLLUTION, ENERGY, NATURAL RESOURCES, HUMAN SETTLEMENTS, AND NEPA. UNDER THE POLLUTION SECTION, EVENTS RELATING TO TOXIC SUBSTANCES, AIR, WATER,

SOLID WASTES, AND NOISE POLLUTION ARE CONSIDERED SEPARATELY. IN CHAPTER TWO THE MAJOR SECTIONS ARE AIR QUALITY, WATER QUALITY, ENVIRONMENTAL HEALTH, ENERGY, NON-RENEWABLE RESOURCES, POPULATION AND HUMAN SETTLEMENTS, AND ECONOMICS. APPENDICES PRESENT PRESIDENTIAL ACTIONS, COUNCIL ON ENVIRONMENTAL QUALITY PROJECTS, AND OTHER ENVIRONMENTAL INFORMATION OF THE PAST YEAR. (MR)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 041-011-00035-1; NO PRICE QUOTED)

INSTITUTION NAME: COUNCIL ON ENVIRONMENTAL QUALITY, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003836

ERIC ACCESSION NUMBER: ED157796

PUBLICATION DATE: 71

TITLE: A GUIDE TO THE COMMON DIATOMS AT WATER POLLUTION SURVEILLANCE SYSTEM STATIONS.

PERSONAL AUTHOR: WEBER, CORNELIUS I.

INSTITUTION CODE: BBB06755

DESCRIPTOR: BIOLOGY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *PLANT IDENTIFICATION; POST SECONDARY EDUCATION; SCIENCE EDUCATION; *TAXONOMY; *WATER POLLUTION CONTROL; WATER RESOURCES; *DIATOMS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 107P.; GRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEDEC78

ABSTRACT: THIS GUIDE WAS DEVELOPED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) AS A TAXONOMIC REFERENCE FOR THE IDENTIFICATION OF DIATOMS. THE TAXONOMIC INFORMATION INCLUDED CONSISTS OF A GENERIC KEY TO THE COMMON GENERA OF DIATOMS, A SECTION ILLUSTRATING 164 DIATOM SPECIES REPRESENTING 43 COMMON GENERA FOUND AT THE WATER POLLUTION SURVEILLANCE SYSTEM (WPSS) STATIONS, AND AN ALPHABETICAL LIST OF THE GENERA INCLUDED IN THIS PUBLICATION. RELATED INFORMATION INCLUDES COLLECTION AND SLIDE PREPARATION PROCEDURES, A DESCRIPTION OF THE STRUCTURE OF THE DIATOM CELL WALL, AND A GLOSSARY OF TERMS USED IN DIATOM TAXONOMY. ALSO INCLUDED IS A MAP OF THE WPSS STATION LOCATIONS IN THE UNITED STATES AND CHARTS INDICATING THE FOUR MOST ABUNDANT DIATOM SPECIES AT THESE WPSS STATIONS. NO INFORMATION IS GIVEN ON THE ECOLOGY OF DIATOMS. (MR)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO.

IRIS ACCESSION NUMBER: EW003837

ERIC ACCESSION NUMBER: ED155010

PUBLICATION DATE: JUN 78

TITLE: AN INTRODUCTION TO THE FUNDAMENTALS OF CHEMISTRY FOR THE MARINE ENGINEER - AN AUDIO-TUTORIAL CORRESPONDENCE COURSE (CH-1C).

PERSONAL AUTHOR: SCHLENKER, RICHARD M.

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *ENGINEERING EDUCATION; *INSTRUCTIONAL MATERIALS; MARINE BIOLOGY; OCEANOLOGY; *SCIENCE COURSES; SCIENCE EDUCATION; SCIENCE UNITS; *STUDY GUIDES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 18P.; FOR RELATED DOCUMENT, SEE ED 148 620

ISSUE: RIEOCT78

ABSTRACT: THIS DOCUMENT PROVIDES A STUDY GUIDE FOR A THREE-CREDIT-HOUR FUNDAMENTALS OF CHEMISTRY COURSE FOR MARINE ENGINEER MAJORS. THE COURSE IS COMPOSED OF 17 MINICOURSES INCLUDING: CHEMICAL REACTIONS, ATOMIC THEORY, SOLUTIONS, CORROSION, ORGANIC CHEMISTRY, WATER POLLUTION, METRIC SYSTEM, AND REMEDIAL MATHEMATICS SKILLS. COURSE GRADING, OBJECTIVES, ADMINISTRATION, SAMPLE EXAM, AND MINICOURSE OUTLINES ARE INCLUDED. (SL)

IRIS ACCESSION NUMBER: EW003838

ERIC ACCESSION NUMBER: ED157789

PUBLICATION DATE: 75

TITLE: AN INSTRUCTORS GUIDE TO WATER POLLUTION. TEST EDITION. AAAS STUDY GUIDES ON CONTEMPORARY PROBLEMS, NO. 5.

PERSONAL AUTHOR: KIDD, DAVID E.

INSTITUTION CODE: FGK01540

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: BIOLOGY; ECOLOGY; ENVIRONMENT; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *POLLUTION; SCIENCES; *STUDY GUIDES; *WATER POLLUTION CONTROL; *WATER RESOURCES; AAAS STUDY GUIDES ON CONTEMPORARY PROBLEMS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 213P.; FOR RELATED DOCUMENTS, SEE SE 024 805-814; NOT AVAILABLE IN HARD COPY DUE TO NUMEROUS MARGINALLY LEGIBLE PAGES

ISSUE: RIEDEC78

ABSTRACT: THIS IS ONE OF SEVERAL STUDY GUIDES ON CONTEMPORARY PROBLEMS PRODUCED BY THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE WITH SUPPORT OF THE NATION SCIENCE FOUNDATION. THIS STUDY GUIDE ON WATER POLLUTI INCLUDES THE FOLLOWING UNITS: (1) OVERVIEW OF WOR POLLUTION; (2) HISTORY, DEFINITION, CRITERIA; (3) ECOSYST THEORY; (4) BIOLOGICAL INDEXES OF POLLUTION; (5) COUR OUTLINES FOR TEACHING WATER POLLUTION; AND (EUTROPHICATION. EACH UNIT INCLUDES AN INTRODUCTION WI OBJECTIVES. OTHER CONTENTS OF THE UNITS VARY BUT USUAL INCLUDE REFERENCES, FIGURES, TABLES, GRAPHS, AND SO NARRATIVE REFERENCES. (RH)

AVAILABILITY: ERIC INFORMATION ANALYSIS CENTER FOR SCIENC MATHEMATICS, & ENVIRONMENTAL EDUCATION, THE OHIO STA UNIV., 1200 CHAMBERS RD., 3RD FLOOR, COLUMBUS, OH 43212 (LOAN)

INSTITUTION NAME: AMERICAN ASSOCIATION FOR THE ADVANCEME OF SCIENCE, WASHINGTON, D.C.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATIO WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003839

ERIC ACCESSION NUMBER: ED152536

PUBLICATION DATE: 78

TITLE: AN INTRODUCTION TO BOILER WATER CHEMISTRY FOR T MARINE ENGINEER: A TEXT OF AUDIO-TUTORIAL INSTRUCTION.

PERSONAL AUTHOR: SCHLENKER, RICHARD M.; AND OTHERS

DESCRIPTOR: AUTOINSTRUCTIONAL AIDS; CHEMISTRY; *COLLE SCIENCE; *ENGINEERING EDUCATION; HIGHER EDUCATIO INDIVIDUALIZED INSTRUCTION; *INDIVIDUALIZED PROGRAM OCEANOLOGY; *SCIENCE COURSES; SCIENCE EDUCATION; TEXTBOOK *MARINE ENGINEERING; *BOILERS

EDRS PRICE: EDRS PRICE MF-$1.16 HC-$35.49 PLUS POSTAGE.

DESCRIPTIVE NOTE: 657P.; PAGES 167-169 MISSING FR DOCUMENT PRIOR TO ITS BEING SHIPPED TO EDRS FOR FILMIN BEST COPY AVAILABLE

ISSUE: RIEAUG78

ABSTRACT: PRESENTED IS A MANUSCRIPT FOR AN INTRODUCTO BOILER WATER CHEMISTRY COURSE FOR MARINE ENGINEER EDUCATIO THE COURSE IS MODULAR, SELF-PACED, AUDIO-TUTORIAL, CONTRA GRADED AND COMBINED LECTURE-LABORATORY INSTRUCTED. LECTUR ARE PRESENTED TO STUDENTS INDIVIDUALLY VIA AUDIO-TAPES A 35 MM SLIDES. THE COURSE CONSISTS OF A TOTAL OF 17 MODULES EIGHT REQUIRED, FOUR ELECTIVE, AND FIVE ATTENDING REMEDIAL MATHEMATICS SKILLS. THE LABORATORY CONSISTS EIGHT LEARNING STATIONS EACH OF WHICH WILL ACCOMMODATE T STUDENTS. COURSE OBJECTIVES INCLUDE: (1) INTRODUCTION FUNDAMENTALS OF CHEMISTRY; (2) PROVIDE BASIC SKILLS BOILER WATER ANALYSIS; (3) PROVIDE UNDERSTANDING OF PROBLE CAUSED BY FAULTY BOILER WATER TREATMENT; AND (4) PROVI UNDERSTANDING OF BOILER WATER TREATMENT TO MINIMIZE DAMA TO SHIP'S BOILERS. (SL)

IRIS ACCESSION NUMBER: EW003840

ERIC ACCESSION NUMBER: ED152484

PUBLICATION DATE: 76

TITLE: PREFERENCE INPUT FORMS AS A METHOD OF OBTAINI FEEDBACK FROM CITIZEN ADVISORY COMMITTEES IN THE PUBL PARTICIPATION PROGRAM OF A WATER RESOURCES PLANNING STUDY.

PERSONAL AUTHOR: SMITH, JOSEPHINE MARQUIS

DESCRIPTOR: *CITIZENS COUNCILS; DECISION MAKIN ENVIRONMENTAL EDUCATION; *FEEDBACK; INFORMATI DISSEMINATION; *MASTERS THESES; NATURAL RESOURCE *ORGANIZATIONAL COMMUNICATION; PLANNING COMMISSION RESEARCH; *WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC N AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 185P.; M.S. DISSERTATION, THE OHIO STA UNIVERSITY; NOT AVAILABLE IN HARD COPY DUE TO MARGIN LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEAUG78

ABSTRACT: REPORTED IS A STUDY OF A PREFERENCE INPUT FORM A MEANS OF OBTAINING INPUT FOR INCORPORATING ADVISO COMMITTEE PREFERENCES INTO THE PLANNING PROCESS FOR WAT RESOURCE MANAGEMENT. TWO INPUT FORMS WERE USED AT EASTE AND WESTERN STUDY AREA COMMITTEE (SAC) MEETINGS, FOR STU AREA 8 OF THE COMPREHENSIVE WATER QUALITY MANAGEMENT PL (COWAMP) IN NORTHWESTERN PENNSYLVANIA. PROBLEMS ORGANIZATION AND ADMINISTRATION OF THE STUDY WE ENCOUNTERED AND ARE DISCUSSED. RESULTS INDICATE THAT T GROUPS FAVORED MODERATE MANAGEMENT POLICIES THE MOST A THAT EVEN THOUGH THE GROUPS RANKED CERTAIN AMENITI DESIRABLE, THOSE SAME AMENITIES RECEIVED MODERATE MANAGEME POLICY RATINGS. (MR)

IRIS ACCESSION NUMBER: EW003841

ERIC ACCESSION NUMBER: ED157532

PUBLICATION DATE: 21 MAR 78

TITLE: A PRELIMINARY THESAURUS OF ENVIRONMENTAL ENGINEERI TERMS FOR AN INDIVIDUAL INFORMATION RETRIEVAL SYSTEM.

PERSONAL AUTHOR: GRADY, JONI K.

DESCRIPTOR: *CLASSIFICATION; ENGINEERING; ENVIRONMENT RESEARCH; *INFORMATION RETRIEVAL; *THESAURI; WATER POLLUTI CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 30P.; BEST COPY AVAILABLE

ISSUE: RIEDEC78

ABSTRACT: WASTEWATER TREATMENT, MICROBIOLOGY, BIOCHEMISTRY, AND ENGINEERING ARE THE MAJOR SUBJECT AREAS COVERED IN THIS PRELIMINARY THESAURUS DESIGNED FOR USE IN A PRIVATE INFORMATION RETRIEVAL SYSTEM. THE THESAURUS WAS DEVELOPED THROUGH MEETINGS WHERE EACH DESCRIPTOR WAS DISCUSSED, NECESSARY SCOPE NOTES WERE WRITTEN, DEFINITION AND CROSS REFERENCES WERE ADDED, AND THE FINAL TERM FORMAT WAS COMPARED WITH OTHER THESAURI. INCLUDED ARE DIRECTIONS FOR RETRIEVAL PROCEDURES, GUIDELINES FOR INDEXING, AN EXPLANATION OF THE MAIN ENTRY FORMAT OF THE DESCRIPTORS, AND THE 220 DESCRIPTORS. (JAB)

IRIS ACCESSION NUMBER: EW003842

ERIC ACCESSION NUMBER: ED153797

PUBLICATION DATE: FEB 74

TITLE: STUDIES IN ENVIRONMENT--VOLUME III: POLLUTION AND THE MUNICIPALITY.

PERSONAL AUTHOR: COOPER, PAMELA C.; AND OTHERS

INSTITUTION CODE: BBB06757

DESCRIPTOR: AIR POLLUTION CONTROL; CLIMATIC FACTORS; *ENVIRONMENT; FEDERAL LEGISLATION; MUNICIPALITIES; *POLLUTION; *TECHNICAL REPORTS; *URBAN AREAS; UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *ENVIRONMENTAL PROTECTION AGENCY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$6.01 PLUS POSTAGE.

DESCRIPTIVE NOTE: 124P.; FOR RELATED DOCUMENTS, SEE SE 023 953-957; CONTAINS OCCASIONAL LIGHT AND BROKEN TYPE

ISSUE: RIESEP78

ABSTRACT: RECENT STUDIES HAVE FOCUSED ATTENTION ON THE FACT THAT RESIDENTS OF INNER-CITY NEIGHBORHOODS ARE SUBJECT TO GREATER AMOUNTS OF POLLUTANTS THAN ARE OTHER NEIGHBORHOODS OF LARGE CITIES. IN THIS STUDY, THE PREMISE IS SET FORTH AND INVESTIGATED AT THE METROPOLITAN SCALE, SEEKING TO DISCOVER DIFFERENCES OF IMPACT BETWEEN THE CENTER CITY AND ITS SUBURBS. THE REPORT HYPTHESIZES DIFFERENTIALS OF A GENERALIZED METROPOLITAN AREA, BY POLLUTANT TYPES AND BY INTERPRETING DIVERSE INFORMATION SOURCES. THE FINDINGS WERE CONSIDERED IN THE LIGHT OF STANDARDS IMPOSED BY FEDERAL AND STATE REGULATION, FIRST UNIFORMLY ENFORCED, THEN IMPLICATIONS FOR VARIABLE ENFORCEMENT. (AUTHOR/BB)

REPORT NUMBER: EPA-600/5-73-012C

GRANT NUMBER: EPA-801473

BUREAU NUMBER: 1HA098

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (STOCK NUMBER 055-001-00759-1, $1.85)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.

IRIS ACCESSION NUMBER: EW003844

ERIC ACCESSION NUMBER: ED156409

PUBLICATION DATE: APR 78

TITLE: CITIZEN PARTICIPATION IN RURAL DEVELOPMENT: A SELECTED BIBLIOGRAPHY. SUPPLEMENT 1 TO SRDC BIBLIOGRAPHY SERIES #6.

PERSONAL AUTHOR: VOTH, DONALD E., COMP.; AND OTHERS

INSTITUTION CODE: BBB11669

SPONSORING AGENCY CODE: BBB09147

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CITIZEN PARTICIPATION; *COMMUNITY DEVELOPMENT; GUIDES; HEALTH; LAND USE; *METHODS; PLANNING; *POLITICAL ISSUES; REVENUE SHARING; *RURAL DEVELOPMENT; STATE GOVERNMENT; TECHNOLOGY; TRANSPORTATION; URBAN RENEWAL; WATER RESOURCES

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 37P.

ISSUE: RIENOV78

ABSTRACT: FULLY ANNOTATED, /THIS SELECTED BIBLIOGRAPHY OF MATERIALS ON CITIZEN PARTICIPATION IN RURAL DEVELOPMENT IS DRAWN FROM A LARGE BIBLIOGRAPHY ALSO PUBLISHED BY THE SOUTHERN RURAL DEVELOPMENT CENTER. REPRESENTING A SEVERE DISTILLATION OF EXTANT MATERIALS ON CITIZEN PARTICIPATION, THIS BIBLIOGRAPHY OF SOME 60 ENTRIES (MOST FROM THE LATE 60'S AND 70'S) IS DIVIDED INTO SUBJECT MATTER AREAS. AFTER A GENERAL SECTION WHICH INCLUDES MATERIALS WHICH COULD NOT BE CLASSIFIED UNAMBIGUOUSLY, THERE ARE SECTIONS ON CITIZEN PARTICIPATION IN: TECHNIQUES AND TECHNOLOGY, STATE GOVERNMENT AND STATE PLANNING, GENERAL REVENUE SHARING, COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM, LAND USE PLANNING, PLANNING, TRANSPORTATION PLANNING, HEALTH CARE, URBAN RENEWAL, POVERTY PROGRAM AND CITIZEN PARTICIPATION OF THE POOR, MODEL CITIES, PUBLIC LANDS ISSUES, AND WATER RESOURCES ISSUES. THE DOCUMENT ALSO PROVIDES A BRIEF GUIDE FOR USERS, RECOMMENDING SPECIFIC DOCUMENTS FOR THOSE PRIMARILY INTERESTED IN RESEARCH RESULTS ON EFFICACY OF CITIZEN PARTICIPATION AND EFFECTIVENESS OF TECHNIQUES, TECHNIQUES OF CITIZEN PARTICIPATION, AND BASIC POLITICAL ISSUES IN CITIZEN INVOLVEMENT. THERE IS ALSO A PAGE-LONG LIST OF BIBLIOGRAPHIES RELEVANT TO CITIZEN PARTICIPATION. (RS)

AVAILABILITY: SOUTHERN RURAL DEVELOPMENT CENTER, BOX 5406, MISSISSIPPI STATE, MISSISSIPPI 39762 ($2.00)

INSTITUTION NAME: SOUTHERN RURAL DEVELOPMENT CENTER, STATE COLLEGE, MISS.

SPONSORING AGENCY NAME: RURAL DEVELOPMENT SERVICE (DOA), WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003845

ERIC ACCESSION NUMBER: ED148586

PUBLICATION DATE: AUG 73

TITLE: CRITERIA FOR THE ESTABLISHMENT AND MAINTENANCE OF TWO YEAR POST HIGH SCHOOL WASTEWATER TECHNOLOGY TRAINING PROGRAMS. TRAINEE WORKBOOKS.

INSTITUTION CODE: BBB06557

SPONSORING AGENCY CODE: BBB13327

DESCRIPTOR: *CURRICULUM; EDUCATIONAL PROGRAMS; *ENVIRONMENT; INSTRUCTION; JOB TRAINING; MAINTENANCE; *POST SECONDARY EDUCATION; SAFETY; *TECHNICAL EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 440P.; FOR RELATED DOCUMENTS, SEE ED 066 575-576; NOT AVAILABLE IN HARD COPY DUE TO COLORED PAGES THROUGHOUT ENTIRE DOCUMENT

ISSUE: RIEMAY78

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES WHICH MAY BE USED IN ESTABLISHING A TWO YEAR POST SECONDARY WASTEWATER TECHNOLOGY TRAINING PROGRAM. THE WORKBOOK PROVIDES THE OBJECTIVES OF INSTRUCTION; A MEANS OF STANDARDIZING INSTRUCTION AND EVALUATION; AND APPROACHES TO INSTRUCTION TO MAXIMIZE TRAINEE INVOLVEMENT AND RETENTION. THE GUIDELINES ARE DESIGNED TO PROVIDE PRACTICAL, HANDS-ON SKILL AND KNOWLEDGE DIRECTLY RELATED TO THE OPERATION AND MANAGEMENT OF A WASTEWATER TREATMENT PLANT. SPECIFIC PROCESS AREAS COVERED ARE PRE-CHLORINATION, SCREENING AND GUIDING, GRIT REMOVAL, AERATION, PRIMARY AND SECONDARY SEDIMENTATION AND FIRST AND SECOND STAGE DIGESTION. EACH PROCESS COVERS SUCH AREAS AS: START-UP AND SHUT-DOWN, NORMAL OPERATION, PREVENTIVE MAINTENANCE, ABNORMALITIES, NORMAL SAMPLING AND RELATED SAFETY FACTORS. (CS)

GRANT NUMBER: EPA-900168

INSTITUTION NAME: CLEMSON UNIV., S. C. DEPT. OF ENVIRONMENTAL SYSTEMS ENGINEERING.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAMS.

IRIS ACCESSION NUMBER: EW003846

ERIC ACCESSION NUMBER: ED144256

PUBLICATION DATE: 76

TITLE: LAND USE AND THE LEGISLATURES: THE POLITICS OF STATE INNOVATION. LAND USE SERIES.

PERSONAL AUTHOR: ROSENBAUM, NELSON

INSTITUTION CODE: BBB03823

SPONSORING AGENCY CODE: QPX27000

DESCRIPTOR: CONSERVATION (ENVIRONMENT); *DIFFUSION; ECOLOGICAL FACTORS; ENVIRONMENTAL INFLUENCES; FEDERAL STATE RELATIONSHIP; *INNOVATION; LAND ACQUISITION; *LAND USE; LEGISLATORS; NATURAL RESOURCES; PLANNING; POLICY FORMATION; *POLITICS; SITE SELECTION; STATE GOVERNMENT; *STATE LEGISLATION; WATER POLLUTION CONTROL; ZONING

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 106P.; SOME PARTS MAY BE MARGINALLY LEGIBLE DUE TO TYPE SIZE

ISSUE: RIEFEB78

ABSTRACT: THIS STUDY ANALYZES AND PREDICTS THE SPREAD OF THREE DIFFERENT TYPES OF LAND USE LEGISLATION: MANDATORY LOCAL GROWTH MANAGEMENT, MAJOR FACILITY SITING, AND CRITICAL AREAS PROTECTION. CHAPTER 2 FOCUSES ON INNOVATIVE STATUTES THAT PROVIDE A NEW OR EXPANDED ROLE FOR STATE AGENCIES IN SUPERVISING LOCAL CONTROL OF DEVELOPMENT. THE THREE STATUTES EXAMINED ARE MANDATORY LOCAL COMPREHENSIVE PLANNING, MANDATORY LOCAL SUBDIVISION CONTROL, AND MANDATORY LOCAL ZONING REGULATION. CHAPTER 3 INVOLVES NEW OR EXPANDED STATE CONTROL OVER THE LOCATION OF MAJOR FACILITIES THAT HAVE BROAD IMPACTS BEYOND THE PARTICULAR LOCALITY IN WHICH THEY ARE SITUATED. THIS INCLUDES THE SITING OF POWER PLANTS AND TRANSMISSION LINES, LARGE-SCALE INDUSTRIAL OR COMMERCIAL FACILITIES, AND SURFACE MINES. CHAPTER 4 IS CONCERNED WITH THE STATE ROLE IN PRESERVING PARTICULARLY FRAGILE OR VALUABLE NATURAL AREAS. THREE TYPES OF LEGISLATION ARE EXAMINED: WETLANDS PROTECTION, SHORELAND AND COASTAL ZONE MANAGEMENT, AND CRITICAL AREAS PRESERVATION. FINALLY, CHAPTER 5 PROVIDES A SUMMARY ANALYSIS OF DIFFUSION PATTERNS ACROSS THE FULL RANGE OF STATUTES, PROJECTS THE FUTURE COURSE OF DIFFUSION, AND ASSESSES THE IMPLICATIONS OF THESE FINDINGS IN RELATION TO THE NEED FOR FURTHER FEDERAL INITIATIVES ON LAND USE. (AUTHOR/MLF)

AVAILABILITY: THE URBAN INSTITUTE, 210[illegible] M STREET, N.W., WASHINGTON, D.C. 20037 ($3.50; PLEASE REFER TO URI 15400 WHEN ORDERING)

INSTITUTION NAME: URBAN INST., WASHINGTON, D.C.

SPONSORING AGENCY NAME: FORD FOUNDATION, NEW YORK, N.Y.

IRIS ACCESSION NUMBER: EW003847

ERIC ACCESSION NUMBER: ED155111

PUBLICATION DATE: 76

TITLE: LAND USE CONTROL: INTERFACE OF LAW AND GEOGRAPHY. RESOURCE PAPER NO. 75-1.

PERSONAL AUTHOR: PLATT, RUTHERFORD H.

INSTITUTION CODE: BBB02490

SPONSORING AGENCY CODE: FGK57295

DESCRIPTOR: AIR POLLUTION CONTROL; CITIZEN PARTICIPATION; *ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL INFLUENCES; FEDERAL LEGISLATION; FINANCIAL SUPPORT; *GEOGRAPHY; *GUIDELINES; HIGHER EDUCATION; INSTRUCTIONAL MATERIALS; KNOWLEDGE LEVEL; *LAND USE; LEGAL PROBLEMS; *LEGISLATION; OBJECTIVES; PUBLIC POLICY; RECREATION LEGISLATION; RESOURCE MATERIALS; URBAN STUDIES; WATER POLLUTION CONTROL; ZONING

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 48P.

ISSUE: RIEOCT78

ABSTRACT: THE DOCUMENT SUGGESTS THAT PROBLEMS OF LAND USE CONTROL CAN OFTEN BE SOLVED BY APPLYING GEOGRAPHIC SKILLS IN ANALYZING THE PHYSICAL, ECONOMIC, AND CULTURAL ATTRIBUTES OF LAND. THE PAPER IS INTENDED PREDOMINATELY FOR USE BY CITIZENS' GROUPS AS THEY STUDY THE LEGAL AND JUDICIAL COMPONENTS OF LAND MANAGEMENT LEGISLATION. IT CAN ALSO BE USED AS RESOURCE MATERIAL FOR COLLEGE GEOGRAPHY CLASSES. THE DOCUMENT IS PRESENTED IN FIVE CHAPTERS. CHAPTER I REVIEWS REGULATIONS AFFECTING PRIVATE LAND OWNERSHIP, PHYSICAL AND SPATIAL USES OF LAND, LOCATION THEORY, AND URBAN ENCROACHMENT UPON AGRICULTURAL LAND. CHAPTER II EXAMINES LOCAL, STATE, AND FEDERAL LAND USE POLICIES. CHAPTER III PRESENTS AN OVERVIEW OF PUBLIC LAND USE CONTROL, ACQUISITION, AND REGULATION. CHAPTER IV DISCUSSES THE CONSTITUTIONAL REQUIREMENTS WHICH GOVERN PUBLIC ZONING REGULATIONS, PRIVATE PROPERTY RESTRICTIONS, BUILDING CODES, AND SUBDIVISION CONTROL. THE FINAL CHAPTER DESCRIBES AND EVALUATES FEDERAL OPEN SPACE PROGRAMS. THE CONCLUSION IS THAT, ALTHOUGH MUCH IMPORTANT OPEN LAND HAS BEEN SET ASIDE FOR FEDERAL OPEN SPACE PROGRAMS, BENEFITS FROM THE PROGRAMS HAVE BEEN INEQUITABLY DISTRIBUTED AND PLANNING CRITERIA HAVE BEEN INADEQUATELY DEFINED. (AUTHOR/DB)

AVAILABILITY: ASSOCIATION OF AMERICAN GEOGRAPHERS, 1710 SIXTEENTH STREET, N.W., WASHINGTON, D.C. 20009 ($2.50, PAPER COVER, QUANTITY DISCOUNTS AVAILABLE)

INSTITUTION NAME: ASSOCIATION OF AMERICAN GEOGRAPHERS, WASHINGTON, D.C.

SPONSORING AGENCY NAME: NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

IRIS ACCESSION NUMBER: EW003848

ERIC ACCESSION NUMBER: ED151153

PUBLICATION DATE: 76

TITLE: MANPOWER PLANNING FOR THE WASTEWATER TREATMENT WORKFORCE OF TEXAS: AN EMERGING FUNCTION. PRESENTED AT THE ANNUAL MEETING OF THE TEXAS WATER UTILITIES ASSOCIATION (58TH, COLLEGE STATION, TEXAS, MARCH, 1976).

PERSONAL AUTHOR: JACKSON, TOM

INSTITUTION CODE: BBB11360

DESCRIPTOR: *MANPOWER DEVELOPMENT; *MANPOWER NEEDS; MANPOWER UTILIZATION; *PLANNING; POLLUTION; SPEECHES; *STATE AGENCIES; *WATER POLLUTION CONTROL; WATER RESOURCES; *TEXAS; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 19P.

ISSUE: RIEJUL78

ABSTRACT: THIS PAPER, PRESENTED AT THE 58TH ANNUAL MEETING OF THE TEXAS WATER UTILITIES ASSOCIATION, ATTEMPTS TO POINT OUT THE NEED FOR MANPOWER PLANNING FOR THE WASTEWATER TREATMENT WORKFORCE OF TEXAS. AS REASONS FOR MANPOWER PLANNING, THIS DOCUMENT DISCLOSES ESTIMATES OF 1400-1500 NEW JOBS, 1300 OF WHICH WILL BE IN WASTEWATER TREATMENT FACILITIES OF 1 MGD OR MORE IN TEXAS BY THE YEAR 1980. IN ADDITION TO INCREASING DEMAND FOR OPERATORS AND OTHER TRAINED PERSONNEL, THERE WILL BE A SUBSTANTIAL INCREASE IN NEEDED TRAINING FUNDS. DUE TO ENVIRONMENTAL REGULATIONS, IT IS NECESSARY FOR LOCAL GOVERNMENTS TO MEET THESE DEMANDS. THIS REQUIRES LONG RANGE PLANNING. THIS DOCUMENT REVEALS THAT THE MANPOWER PLANNING EFFORTS IN TEXAS CONSIST OF A CAREFUL ASSESSMENT OF THE PRESENT WASTEWATER TREATMENT WORKFORCE'S MOVEMENTS INTO, THROUGH, AND OUT OF THE FIELD, CAREFUL STAFFING AND TRAINING PROJECTIONS, AND A COMPUTER HOUSED DATA BASE OF THESE ASSESSMENTS AND PROJECTIONS. (MR)

INSTITUTION NAME: TEXAS WATER QUALITY BOARD, AUSTIN.

IRIS ACCESSION NUMBER: EW003849

ERIC ACCESSION NUMBER: ED150003

PUBLICATION DATE: JUL 76

TITLE: A PRIMER ON WASTEWATER TREATMENT, JULY 1976 EDITION.

INSTITUTION CODE: BBB15277

DESCRIPTOR: CHEMISTRY; *ENVIRONMENTAL EDUCATION; *POLLUTION; *RESOURCE MATERIALS; SANITATION; *WATER POLLUTION CONTROL; WATER RESOURCES; *WASTEWATER TREATMENT

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 32P.; FOR RELATED DOCUMENT, SEE ED 044 269; COLORED PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIEJUN78

ABSTRACT: THIS GENERAL INFORMATION PAMPHLET IS CONCERNED WITH THE TYPES OF WASTEWATER TREATMENT SYSTEMS, THE NEED FOR FURTHER TREATMENT, AND ADVANCED METHODS OF TREATING WASTE. CURRENT METHODS ARE DESCRIBED, ILLUSTRATED AND EVALUATED. POLLUTION PROBLEMS FROM OXYGEN-DEMANDING WASTES, DISEASE-CAUSING AGENTS, PLANT NUTRIENTS, SYNTHETIC CHEMICALS, INORGANIC CHEMICALS, SEDIMENTS, RADIOACTIVITY AND HEAT ARE DISCUSSED. THROUGHOUT, PROBLEMS OF WATER POLLUTION CONTROL AND WASTE DISPOSAL ARE PRESENTED TO ILLUSTRATE THE NEED FOR PLANNING, FINANCING AND BUILDING TREATMENT FACILITIES TO MEET WATER QUALITY STANDARDS. A GLOSSARY OF COMMON SEWAGE TREATMENT TERMS IS INCLUDED. (CS)

INSTITUTION NAME: ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF PUBLIC AFFAIRS.

IRIS ACCESSION NUMBER: EW003850

ERIC ACCESSION NUMBER: ED146057

PUBLICATION DATE: AUG 76

TITLE: WHO'S MINDING THE SHORE? A CITIZENS' GUIDE TO COASTAL MANAGEMENT.

PERSONAL AUTHOR: BEERS, ROGER; AND OTHERS

INSTITUTION CODE: BBB15002

SPONSORING AGENCY CODE: BBB15003

DESCRIPTOR: *CITIZEN PARTICIPATION; *CONSERVATION (ENVIRONMENT); GUIDES; NATURAL RESOURCES; *OCEANOLOGY; PROGRAM DEVELOPMENT; *PROGRAM PLANNING; PROPERTY ACCOUNTING; *RESOURCE MATERIALS; *COASTAL ZONES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 51P.; FROM THE BOOK ENTITLED THE THIN EDGE SOON TO BE PUBLISHED BY HARPER & ROWE PUBLISHERS, INC.

ISSUE: RIEMAR78

ABSTRACT: THIS CITIZEN'S GUIDE IS DESIGNED TO ILLUSTRATE THE WAYS THAT CITIZENS CAN PARTICIPATE IN THEIR STATE'S DEVELOPMENT OF A COASTAL MANAGEMENT PROGRAM. THE PROVISIONS OF THE COASTAL ZONE MANAGEMENT ACT ARE DISCUSSED AND THE REQUIREMENTS OF AN EFFECTIVE MANAGEMENT PROGRAM ARE CONSIDERED. SOME BACKGROUND INFORMATION OUTLINING THE ECOLOGICAL FACTORS AFFECTING COASTAL ECOSYSTEMS IS INCLUDED ALONG WITH A DISCUSSION OF THE PRESSURES PUT ON THESE SYSTEMS BY HUMAN DEVELOPMENT - OFFSHORE OIL PRODUCTION AND RESIDENTIAL SUBDIVISIONS. RECREATIONAL, COMMERCIAL, AND INDUSTRIAL COASTAL ZONE ACTIVITIES ARE CONSIDERED WITH RESPECT TO THEIR ROLE IN MANAGEMENT OF THESE AREAS. AN ANALYSIS OF PUBLIC AND PRIVATE PROPERTY OWNERSHIP RIGHTS ARE EXAMINED ALONG WITH THE ALLOWABLE EXTENT OF STATE REGULATION. APPENDICES INCLUDE: (1) A LISTING OF STATE COASTAL MANAGEMENT PROGRAM MANAGERS; (2) KEY FEDERAL AND STATE STATUTES WHICH BEAR ON THE COASTAL ZONE; (3) FEDERAL SOURCES OF INFORMATION; AND (4) SUGGESTIONS FOR FURTHER READING. (MA)

AVAILABILITY: HARPER & ROWE PUBLISHERS, INC., P.O. BOX 4000, SCRANTON, PENNSYLVANIA 18501 (NO PRICE QUOTED)

INSTITUTION NAME: NATURAL RESOURCES DEFENSE COUNCIL, INC., WASHINGTON, D.C.

SPONSORING AGENCY NAME: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (DOC), ROCKVILLE, MD. OFFICE OF COASTAL ZONE MANAGEMENT.

IRIS ACCESSION NUMBER: EW003854

PUBLICATION DATE: 78

TITLE: TOXIC AND HAZARDOUS WASTE DISPOSAL, VOLUME 2. OPTIONS.

PERSONAL AUTHOR: POJASEK, ROBERT B., ED.

DESCRIPTOR: ARSENIC; *DISPOSAL; *INDUSTRIAL WASTES; LANDFILLS; LAWS; REGULATIONS; SOLIDIFICATION; *STABILIZATION; TESTING; *TOXIC SUBSTANCES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 259P.

ABSTRACT: THIS SECOND VOLUME OF A SERIES ON TOXIC AND HAZARDOUS SOLID WASTE DISPOSAL COVERS THE FOLLOWING TOPICS: (1) LEGISLATIVE INITIATIVES FOR STABILIZATION AND SOLIDIFICATION OF HAZARDOUS WASTES; (2) DEVELOPING DISPOSAL SITE CRITERIA; (3) FIELD TESTING OF INDUSTRIAL WASTE DISPOSAL SYSTEMS; (4) PHYSICAL PROPERTIES TESTING OF RAW AND STABILIZED INDUSTRIAL SLUDGES; (5) CODES OF PRACTICE AND RESEARCH RELATING TO LANDFILL DISPOSAL OF HAZARDOUS WASTES IN THE UNITED KINGDOM; (6) THE SECURE LANDFILL DISPOSAL OF HAZARDOUS WASTES; (7) EVALUATION OF HAZARDOUS SOLID WASTES; (8) TEST FACTORS AFFECTING THE RELEASE OF MATERIALS FROM INDUSTRIAL WASTES IN LEACHING TESTS; (9) PREDICTING THE LEACHING CHARACTERISTICS OF DEPOSITED WASTES; (10) LEACH TESTING OF STABILIZED INDUSTRIAL SLUDGES; (11) STABILIZATION TESTING AND DISPOSAL OF ARSENIC-CONTAINING WASTES; (12) FIXATION OF KEPONE-CONTAMINATED SEDIMENTS; AND (13) STABILIZATION OF SLUDGES FROM WET FLUE GAS DESULFURIZATION SYSTEMS. (BB)

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 ($36.00)

IRIS ACCESSION NUMBER: EW003858

PUBLICATION DATE: OCT 78

TITLE: COAL MINE WATER POLLUTION LEGAL AND REGULATORY ISSUES: A SURVEY.

PERSONAL AUTHOR: FISHER, ANN BROMAN

DESCRIPTOR: *COAL MINES; *ECOLOGICAL FACTORS; *ECOLOGY; *ENVIRONMENT; *LAND USE; *MINING; *NATURAL RESOURCES; *POLLUTION; *REGULATIONS; RESOURCES; SOIL CONSERVATION;

ATER POLLUTION CONTROL; *WATER RESOURCES

SCRIPTIVE NOTE: 49P. ORDER NO. PB 290 918

STRACT: WEST VIRGINIA AND KENTUCKY, THE LARGEST COAL ODUCING STATES IN THE U.S., ARE CITED AS HAVING LESS RINGENT LAWS GOVERNING WATER POLLUTION FROM COAL MINING. VE OTHER STATES ARE EXAMINED FOR THE STRINGENCY AND RAMETERS COVERED BY THEIR RESPECTIVE WATER POLLUTION NTROL REGULATIONS GOVERNING MINING. STUDY CONCLUSIONS CLUDE THE OBSERVATIONS THAT NO STATES HAVE IMPOSED QUIREMENTS FOR EXPENSIVE TREATMENT TECHNOLOGY FOR MINE NOFF, VIOLATIONS OF WATER QUALITY STANDARDS ARE FREQUENTLY NORED, AND STATE REGULATIONS OFTEN EXCLUDE FROM STANDARDS REAMS THAT HAVE BEEN SEVERELY POLLUTED FROM MINE DRAINAGE R LONG PERIODS. MINING AND WATER QUALITY DATA ARE PROVIDED R EACH OF THE SEVEN STATES ANALYZED IN THE STUDY. (RE)

AILABILITY: NTIS, 5285 PORT ROYAL RD., SPRINGFIELD, VA 161 ($4.50)

STITUTION NAME: ILLINOIS INSTITUTE OF NATURAL RESOURCES.

IS ACCESSION NUMBER: EW003860

BLICATION DATE: APR 78

TLE: WATER QUALITY MANAGEMENT AND THE HOMEBUILDING DUSTRY.

SCRIPTOR: BUILDINGS; *CONSTRUCTION INDUSTRY; ENVIRONMENT; VIRONMENTAL CRITERIA; *ENVIRONMENTAL INFLUENCES; *FEDERAL TER POLLUTION CONTROL ACT SECTION 208; *LAND USE; NONPOINT LLUTION; PLANNING; POINT POLLUTION; *POLLUTION; *SOIL NSERVATION; *WATER POLLUTION CONTROL; *WATER QUALITY; NING

SCRIPTIVE NOTE: 12P.

STRACT: SECTION 208 OF THE FEDERAL WATER POLLUTION NTROL ACT OF 1972 DIRECTS PLANNING AGENCIES TO CONSIDER E EFFECTS OF NONPOINT SOURCE AND POINT SOURCE POLLUTION EN CREATING AREA-WIDE WASTE MANAGEMENT PLANS. THESE PLANS LL REQUIRE LAND USE TECHNIQUES TO BE EMPLOYED WITH TENTIAL IMPACT ON THE HOMEBUILDING INDUSTRY. THIS BOOKLET COURAGES BUILDERS TO INVOLVE THEMSELVES IN THE PLANNING OCESS WHERE THEY CAN CONTRIBUTE THEIR PARTICULAR INSIGHTS THE CREATION OF WORKABLE, COST-EFFECTIVE, AND FAIR 208 ANS. (RE)

AILABILITY: U.S. EPA, OFFICE OF WATER AND HAZARDOUS TERIALS, WASHINGTON, D.C. 20460 (FREE)

STITUTION NAME: U.S. EPA, OFFICE OF WATER AND HAZARDOUS TERIALS.

IS ACCESSION NUMBER: EW003861

BLICATION DATE: 71

TLE: WATER AND WATER POLLUTION HANDBOOK. VOL. 1.

RSONAL AUTHOR: CIACCIO, LEONARD L., ED.

SCRIPTOR: ANALYTICAL TECHNIQUES; BIOLOGY; CHEMISTRY; FLUENTS; ESTUARIES; *INSTRUCTIONAL MATERIALS; IRRIGATION; THEMATICAL MODELS; NATURAL RESOURCES; POLLUTION; *WATER SOURCES; WASTE DISPOSAL; *WATER QUALITY; *WATER POLLUTION NTROL; WASTEWATER TREATMENT

SCRIPTIVE NOTE: 449P. OTHER VOLUMES OF THIS HANDBOOK: 000888, EW000889, EW001448

STRACT: THIS BOOK IS ONE IN A FOUR VOLUME SET THAT SCUSSES THE PHYSICAL, CHEMICAL, AND BIOLOGICAL ARACTERISTICS OF VARIOUS PARTS OF THE WATER ENVIRONMENT D ASSOCIATED SYSTEMS. THE DISCUSSION IS MULTIDISCIPLINARY ANALYZING THE PROBLEMS AND APPROACHES. CHAPTER TOPICS OF IS VOLUME ADDRESS CHEMICAL, PHYSICAL, AND BIOLOGICAL ARACTERISTICS OF WATER RESOURCES, ESTUARIES, IRRIGATION D SOIL WATER, AND WASTES AND WASTE EFFLUENTS. OTHER TOPICS CLUDE SELF-PURIFICATION IN NATURAL WATERS, MATHEMATICAL DELING, EFFECTS OF POLLUTION UPON AQUATIC LIFE, CHEMICAL D PHYSICAL PURIFICATION, AND BIOLOGICAL WASTE TREATMENT. K)

AILABILITY: MARCEL DEKKER, INC., 270 MADISON AVE., NEW RK, NY 14305 ($52.50)

IS ACCESSION NUMBER: EW003862

BLICATION DATE: 72

TLE: ENVIRONMENTAL QUALITY AND SAFETY: GLOBAL ASPECTS OF EMISTRY, TOXICOLOGY AND TECHNOLOGY AS APPLIED TO THE VIRONMENT, VOL. I.

RSONAL AUTHOR: COULSTON, FREDERICK; KORTE, FRIEDHELM

SCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL ANALYSIS; HEMISTRY; *ENVIRONMENT; *ECOLOGY; *PESTICIDES; *RESIDUES; AFETY; TECHNICAL REPORTS; *TOXICOLOGY; WATER POLLUTION NTROL

SCRIPTIVE NOTE: 267P.

STRACT: PRESENTED ARE 21 PAPERS ON VARIOUS ASPECTS OF THE ALUATION OF THE SAFETY OF ENVIRONMENTAL CHEMICALS, DRUGS, YSICAL AGENTS, PESTICIDES, AND FOOD ADDITIVES. INCLUDED E ARTICLES ON PHILOSOPHICAL AND LEGAL QUESTIONS AS WELL AS OSE ADDRESSING VARIOUS CHEMICAL, BIOCHEMICAL, AND XICOLOGICAL QUESTIONS. SOME OF THE TOPICS DISCUSSED ARE:) CORRELATION OF DATA ON PESTICIDE RESIDUES IN PLANTS AS A SIS FOR ESTIMATION OF THEIR MAGNITUDE IN THE ENVIRONMENT;) ENVIRONMENTAL PROBLEMS ARISING FROM ENERGY CONVERSION;) THE BENEFITS AND RISKS OF PHARMACEUTICALS; (4) TABOLISM OF PESTICIDES; (5) SOIL INTERACTIONS OF STICIDES; AND (6) ANALYSIS OF RESIDUES IN MILK. (BB)

AILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW RK, NEW YORK 10003 ($24.75)

IRIS ACCESSION NUMBER: EW003863

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL QUALITY AND SAFETY: GLOBAL ASPECTS OF CHEMISTRY, TOXICOLOGY AND TECHNOLOGY AS APPLIED TO THE ENVIRONMENT, VOL. II.

PERSONAL AUTHOR: COULSTON, FREDERICK; KORTE, FRIEDHELM

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL ANALYSIS; *ECOLOGY; *ENVIRONMENT; EVALUATION; *PESTICIDES; RESIDUES; *SAFETY; TECHNICAL REPORTS; TECHNOLOGY; *TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 333P.

ABSTRACT: PRESENTED ARE 36 PAPERS ON VARIOUS ASPECTS OF THE EVALUATION OF THE SAFETY OF ENVIRONMENTAL CHEMICALS, DRUGS, PHYSICAL AGENTS, PESTICIDES, AND FOOD ADDITIVES. INCLUDED ARE ARTICLES ON ECONOMIC AND LEGAL QUESTIONS AS WELL AS THOSE ADDRESSING VARIOUS CHEMICAL, BIOCHEMICAL, AND TOXICOLOGICAL PROBLEMS. SOME OF THE TOPICS DISCUSSED ARE: (1) OPPORTUNITIES FOR SCIENCE IN THE FOOD INDUSTRY; (2) NEW TECHNOLOGIES FOR THE ALLEVIATION OF ENVIRONMENTAL POLLUTION; (3) RECENT AIR POLLUTION PROBLEMS; (4) DRINKING WATER AND WASTE WATER PROBLEMS; (5) POWER GENERATION CHEMICALS; (6) THE PROBLEM OF PERMISSIBLE LIMITS OF POTENTIALLY TOXIC SUBSTANCES; (7) THE EFFECT OF AIR-POLLUTING GASES ON PLANT METABOLISM; (8) THE TOXICOLOGY OF NITRITES; AND (9) THE ECONOMIC IMPORTANCE OF CHEMICAL CROP PROTECTION IN RELATION TO ITS ECOLOGICAL IMPACT. (BB)

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NEW YORK 10003 ($32.50)

IRIS ACCESSION NUMBER: EW003864

PUBLICATION DATE: 74

TITLE: ENVIRONMENTAL QUALITY AND SAFETY: GLOBAL ASPECTS OF CHEMISTRY, TOXICOLOGY AND TECHNOLOGY AS APPLIED TO THE ENVIRONMENT, VOL. III.

PERSONAL AUTHOR: COULSTON, FREDERICK; KORTE, FREIDHELM

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL ANALYSIS; *ECOLOGY; *ENVIRONMENT; EVALUATION; *PESTICIDES; RESIDUES; *SAFETY; *TECHNICAL REPORTS; *TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 245P.

ABSTRACT: PRESENTED ARE 22 PAPERS ON VARIOUS ASPECTS OF THE EVALUATION OF THE SAFETY OF ENVIRONMENTAL CHEMICALS, DRUGS, PHYSICAL AGENTS, PESTICIDES, AND FOOD ADDITIVES. INCLUDED ARE ARTICLES ON ECONOMIC AND LEGAL QUESTIONS AS WELL AS THOSE ADDRESSING VARIOUS CHEMICAL, BIOCHEMICAL, AND TOXICOLOGICAL PROBLEMS. SOME OF THE TOPICS DISCUSSED ARE EVALUATION OF SAFETY FROM A CONSUMER, SCIENTIST, AND PRODUCER'S VIEWPOINT; CARBON MONOXIDE; DIELDRIN RESIDUES IN ANIMALS; PROBLEMS ENCOUNTERED IN THE TOXICOLOGICAL TESTING OF ENVIRONMENTAL CHEMICALS; FUNDAMENTAL BIOCHEMICAL ASPECTS OF AIR POLLUTION; THE NEUROTOXICITY OF ORGANOPHOSPHORUS COMPOUNDS AND COPPER IN HENS; AND THE ROLE OF CLINICAL RESEARCH IN ESTABLISHING AIR QUALITY CRITERIA AND STANDARDS. (BB)

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NEW YORK 10003 ($29.00)

IRIS ACCESSION NUMBER: EW003865

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL QUALITY AND SAFETY: GLOBAL ASPECTS OF CHEMISTRY, TOXICOLOGY AND TECHNOLOGY AS APPLIED TO THE ENVIRONMENT, VOL. IV.

PERSONAL AUTHOR: COULSTON, FREDERICK; KORTE, FRIEDHELM

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL ANALYSIS; *ECOLOGY; *ENVIRONMENT; EVALUATION; FOOD TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *PESTICIDES; POST SECONDARY EDUCATION; RESIDUES; *SAFETY; TECHNICAL REPORTS; *TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 276P.

ABSTRACT: PRESENTED ARE 30 PAPERS ON VARIOUS ASPECTS OF THE EVALUATION OF THE SAFETY OF ENVIRONMENTAL CHEMICALS, DRUGS, PHYSICAL AGENTS, PESTICIDES, AND FOOD ADDITIVES. INCLUDED ARE ARTICLES ON ECONOMIC AND LEGAL QUESTIONS AS WELL AS THOSE ADDRESSING VARIOUS CHEMICAL, BIOCHEMICAL, AND TOXICOLOGICAL PROBLEMS. SOME OF THE TOPICS DISCUSSED ARE: (1) REGULATORY CONSTRAINTS ON AGRICULTURE; (2) AIR POLLUTION IMPACT IN NORTH-RHINE-WESTPHALIA; (3) PLANT NUTRITION AND POLITICS AS SEEN BY A FOOD TECHNOLOGIST; (4) DEGRADATION OF CARBAMATE INSECTICIDES IN SOIL; (5) THE ENVIRONMENTAL EFFECTS OF PARAQUAT; (6) THE FATE OF PCB'S IN THE ENVIRONMENT; (7) HERBICIDE METABOLISM BY GLUTATHIONE CONJUGATION IN PLANTS; AND (8) THE SIGNIFICANCE OF MUTAGENICITY TESTING ON PESTICIDES. (BB)

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NEW YORK 10003 ($24.75)

IRIS ACCESSION NUMBER: EW003866

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL QUALITY AND SAFETY: GLOBAL ASPECTS OF CHEMISTRY, TOXICOLOGY AND TECHNOLOGY AS APPLIED TO THE ENVIRONMENT, VOL. V.

PERSONAL AUTHOR: COULSTON, FREDERICK; KORTE, FRIEDHELM

DESCRIPTOR: AIR POLLUTION CONTROL; CHEMICAL ANALYSIS; *ECOLOGY; *ENVIRONMENT; EVALUATION; *PESTICIDES; RESIDUES; *SAFETY; *TECHNICAL REPORTS; *TOXICOLOGY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 259P.

ABSTRACT: PRESENTED ARE 25 PAPERS ON VARIOUS ASPECTS OF THE EVALUATION OF THE SAFETY OF ENVIRONMENTAL CHEMICALS, DRUGS, PHYSICAL AGENTS, PESTICIDES, AND FOOD ADDITIVES. INCLUDED ARE ARTICLES ON ECONOMIC AND LEGAL QUESTIONS AS WELL AS THOSE ADDRESSING VARIOUS CHEMICAL, BIOCHEMICAL, AND TOXICOLOGICAL PROBLEMS. SOME OF THE TOPICS DISCUSSED ARE CHEMICAL CONTROL OF THE SEA LAMPHREY, TECHNOLOGY ASSESSMENT ON THE USE OF PESTICIDES, THE DEVELOPMENT OF AGRICULTURAL ANTIBIOTICS IN JAPAN, USE AND FIELD APPLICATION OF PHEROMONES IN ORCHARD PEST MANAGEMENT PROGRAMS, BIOACCUMULATION OF 14-C-DDT IN A SMALL POND, AND MEDICAL TOXICOLOGICAL RESEARCH ON DIELDRIN AND RELATED COMPOUNDS. (BB)

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NEW YORK 10003 ($21.50)

IRIS ACCESSION NUMBER: EW003887

ERIC ACCESSION NUMBER: ED156437

PUBLICATION DATE: 76

TITLE: KILLING WEEDS WITH 2,4-D. EXTENSION BULLETIN 389.

PERSONAL AUTHOR: LEE, OLIVER C.

INSTITUTION CODE: BBB06189

DESCRIPTOR: *AGRICULTURAL EDUCATION; AGRICULTURE; *FIELD CROPS; *HERBICIDES; INSTRUCTIONAL MATERIALS; *MANUALS; *POST SECONDARY EDUCATION; *WEEDS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 13P.; PHOTOGRAPHS MAY NOT REPRODUCE WELL

ISSUE: RIENOV78

ABSTRACT: DISCUSSED IS THE USE OF THE HERBICIDE 2,4-D. THOUGH WRITTEN FOR FARMERS AND AGRICULTURAL WORKERS, THE PAMPHLET CONSIDERS TURF WEED CONTROL AND USE OF 2,4-D NEAR ORNAMENTAL PLANTS. ASPECTS OF THE USE OF THIS HERBICIDE COVERED ARE: (1) THE COMMON FORMS OF 2,4-D; (2) PLANT RESPONSES AND TOLERANCES TO THE HERBICIDE; (3) DILUTION AND CONCENTRATION OF THE CHEMICAL; AND (4) SPRAYING. MUCH OF THE INFORMATION ON SPRAYING 2,4-D INVOLVES USE ON CROPS AND PROBLEM WEEDS LIKE CANADA THISTLE AND FIELD BINDLEWEED. OTHER PARTS DISCUSS SPRAYING 2,4-D ON TURF, ALONG FENCE ROWS AND DITCH BANKS, AND FOR CONTROL OF AQUATIC WEEDS. SOME GENERAL INFORMATION ON SPRAYERS AND APPLICATION TECHNIQUES IS GIVEN. IN GENERAL, THE INFORMATION IN THIS BULLETIN IS NON-TECHNICAL AND INTRODUCTORY IN NATURE. (MR)

INSTITUTION NAME: PURDUE UNIV., LAFAYETTE, IND. COOPERATIVE EXTENSION SERVICE.

IRIS ACCESSION NUMBER: EW003888

ERIC ACCESSION NUMBER: ED157753

PUBLICATION DATE: 77

TITLE: TRAINING FOR CERTIFICATION: FOREST PEST CONTROL.

PERSONAL AUTHOR: PARKER, ROBERT C., COMP.

INSTITUTION CODE: BBB06698

DESCRIPTOR: *CERTIFICATION; *ENVIRONMENTAL CRITERIA; ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS; EXTENSION EDUCATION; *FORESTRY; *PESTICIDES; PUBLIC HEALTH; QUALITY CONTROL; *TREES; WEEDS; *MISSISSIPPI STATE UNIVERSITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$4.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 76P.; FOR RELATED DOCUMENTS, SEE SE 024 752-757; CONTAINS LIGHT AND BROKEN TYPE

ISSUE: RIEDEC78

ABSTRACT: THIS COOPERATIVE EXTENSION SERVICE PUBLICATION FROM MISSISSIPPI STATE UNIVERSITY IS A TRAINING GUIDE FOR COMMERCIAL PESTICIDE APPLICATORS. FOCUSING ON FOREST PEST CONTROL, THIS PUBLICATION EXAMINES PLANT AND ANIMAL PEST CONTROL PRACTICES FOR SOUTHERN TREE SPECIES. CONTENTS INCLUDE: (1) IDENTIFICATION OF INSECTS, DISEASES, AND WEED TREE SPECIES; (2) BASIC PROPERTIES OF INSECTICIDES, FUNGICIDES, AND HERBICIDES; (3) CONCENTRATION, FORMULATION, AND MIXING OF PESTICIDES; (4) APPLICATION METHODS SUCH AS SPRAYS, DUSTS, GRANULAR APPLICATIONS AND MECHANICAL-CHEMICAL APPLICATIONS; (5) ENVIRONMENTAL SAFETY CONSIDERATIONS SUCH AS DRIFT AND VOLATILIZATION, DISPOSAL OF PESTICIDES AND THEIR CONTAINERS AND THE EFFECTS OF PESTICIDES IN SOIL AND WATER; AND (6) SOME RECOMMENDED FOREST PEST CONTROL PRACTICES FOR MISSISSIPPI. A REFERENCE LIST IS ALSO INCLUDED. (MR)

INSTITUTION NAME: MISSISSIPPI STATE UNIV., STATE COLLEGE. COOPERATIVE EXTENSION SERVICE.

IRIS ACCESSION NUMBER: EW003889

ERIC ACCESSION NUMBER: ED159007

PUBLICATION DATE: 77

TITLE: AQUATIC PEST CONTROL. MANUAL 99.

INSTITUTION CODE: BBB04136; OHH54630

DESCRIPTOR: *CERTIFICATION; ENTOMOLOGY; ENVIRONMENT; HERBICIDES; *INSTRUCTIONAL MATERIALS; *PESTICIDES; *POST SECONDARY EDUCATION; SAFETY; UNITS OF STUDY; WATER POLLUTION CONTROL; *WEEDS; *MISSOURI; *WATER

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 39P.; FOR RELATED DOCUMENTS, SEE SE 024 748-750 AND SE 024 665-671; CONTAINS OCCASIONAL LIGHT A BROKEN TYPE

ISSUE: RIEJAN79

ABSTRACT: THIS TRAINING MANUAL PROVIDES INFORMATION NEED TO MEET THE MINIMUM EPA STANDARDS FOR CERTIFICATION AS COMMERCIAL APPLICATOR OF PESTICIDES IN THE AQUATIC PE CONTROL CATEGORY. THE TEXT DISCUSSES VARIOUS WATER U SITUATIONS; AQUATIC WEED IDENTIFICATION; HERBICIDE USE A EFFECTS; AND AQUATIC INSECTS AND THEIR CONTROL. (CS)

INSTITUTION NAME: MISSOURI UNIV., COLUMBIA. AGRICULTUR EXPERIMENT STATION.; MISSOURI UNIV., COLUMBIA. EXTENSI DIV.

IRIS ACCESSION NUMBER: EW003890

ERIC ACCESSION NUMBER: ED158991

PUBLICATION DATE: DEC 76

TITLE: SAFE EFFECTIVE USE OF PESTICIDES, A MANUAL F COMMERCIAL APPLICATORS: AQUATIC PEST CONTROL.

INSTITUTION CODE: BBB06482; BBB07676

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *CERTIFICATIO *DISEASE CONTROL; ENVIRONMENTAL CRITERIA; *INSTRUCTION MATERIALS; *PESTICIDES; POST SECONDARY EDUCATION; *SAFET AQUATIC PEST CONTROL; MICHIGAN; *PEST CONTROL

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE.

DESCRIPTIVE NOTE: 61P.; FOR RELATED DOCUMENTS, SEE SE 0 681-693 AND ED 152 516-517; CONTAINS OCCASIONAL LIGHT A BROKEN TYPE

ISSUE: RIEJAN79

ABSTRACT: THIS MANUAL IS INTENDED TO ASSIST PESTICI APPLICATORS IN THE AREA OF AQUATIC PEST CONTROL MEET T REQUIREMENTS OF THE MICHIGAN DEPARTMENT OF AGRICULTURE F CERTIFICATION. THE ENVIRONMENTAL PROTECTION AGENCY (EP AQUATIC PEST CONTROL GUIDE SERVED AS A BASIS FOR TH MANUAL. THE SIX SECTIONS PRESENTED DESCRIBE: (1) AQUAT PEST CONTROL; (2) PLANT MANAGEMENT; (3) VERTEBRA MANAGEMENT; (4) INVERTEBRATE MANAGEMENT; (5) SWIMMING POOL AND (6) ENVIRONMENTAL CONSIDERATIONS AND RESTRICTIONS. LIST OF SELF-HELP QUESTIONS AND INSTRUCTIONS FOR COMPLETI THE QUESTIONS ARE PRESENTED AT THE END OF EACH SECTION. THE END OF THIS PUBLICATION, UNITS AND CONVERSI EQUIVALENTS, FORMULAS FOR HERBICIDE APPLICATION TO CHANNEL AND FORMULAS FOR HERBICIDE APPLICATION TO PONDS OR LAKES A PRESENTED. (HM)

REPORT NUMBER: MSU-EB-E-1032-5

INSTITUTION NAME: EXTENSION SERVICE (DOA), WASHINGTO D.C.; MICHIGAN STATE UNIV., EAST LANSING. COOPERATI EXTENSION SERVICE.

IRIS ACCESSION NUMBER: EW003891

ERIC ACCESSION NUMBER: ED160376

PUBLICATION DATE: JAN 77

TITLE: AQUATIC PEST CONTROL. SALE PUBLICATION 4071.

PERSONAL AUTHOR: WAMSLEY, MARY ANN, ED.; VERMEIRE, DON M., ED.

INSTITUTION CODE: BBB01943; BBB14943

SPONSORING AGENCY CODE: BBB13152

DESCRIPTOR: *AGRICULTURAL CHEMICAL OCCUPATION AGRICULTURAL EDUCATION; ENVIRONMENT; *HERBICIDES; MANUAL *PESTICIDES; SCIENCE EDUCATION; *WATER RESOURCES; *WEEDS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 11P.; FOR RELATED DOCUMENTS, SEE SE 0 886-891

ISSUE: RIEFEB79

ABSTRACT: THE INFORMATION IN THIS MANUAL APPLIES TO CONTR OF AQUATIC PESTS IN RECREATIONAL WATERS, AGRICULTUR RESERVOIRS, ORNAMENTAL PONDS, COASTAL BAYS, ESTUARIES A CHANNELS, AND DRINKING WATER RESERVOIRS. MECHANICA CULTURAL, BIOLOGICAL, AND CHEMICAL CONTROL METHODS A DISCUSSED. THE MAJORITY OF THE MATERIAL IS DEVOTED TO WE CONTROL IN STATIC WATER, LARGE IMPOUNDMENTS, FLOWING WATE AND LIMITED-FLOW WATERWAYS. CONTROL OF VERTEBRATES MENTIONED BRIEFLY. ENVIRONMENTAL CONSIDERATIONS AND UNI AND CONVERSION EQUIVALENTS ARE ALSO COVERED. (BB)

CONTRACT NUMBER: EPA-68-01-2918

INSTITUTION NAME: CALIFORNIA STATE POLYTECHNIC UNIV POMONA.; CALIFORNIA UNIV., BERKELEY. EXTENSION DIV.

SPONSORING AGENCY NAME: ENVIRONMENTAL PROTECTION AGENC WASHINGTON, D.C. OFFICE OF PESTICIDE PROGRAMS.

IRIS ACCESSION NUMBER: EW003892

ERIC ACCESSION NUMBER: ED160378

PUBLICATION DATE: JAN 77

TITLE: RIGHT-OF-WAY PEST CONTROL. SALE PUBLICATION 4075.

PERSONAL AUTHOR: STIMMANN, M. W., ED.

INSTITUTION CODE: BBB01943

DESCRIPTOR: *AGRICULTURAL CHEMICAL OCCUPATION AGRICULTURAL EDUCATION; ENVIRONMENT; *HERBICIDES; MANUAL *PESTICIDES; PLANT SCIENCE; SCIENCE EDUCATION; *TU

MANAGEMENT; *WEEDS

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$1.67 PLUS POSTAGE.

DESCRIPTIVE NOTE: 16P.; FOR RELATED DOCUMENTS, SEE SE 024 886-891

ISSUE: RIEFEB79

ABSTRACT: THIS MANUAL DISCUSSES WEED CONTROL TO BE APPLIED TO SUCH AREAS AS ROADS, AIRPORTS, RAILROADS, ELECTRIC UTILITIES, WATERWAYS; AND TRAILS. INCLUDED IS INFORMATION ABOUT TYPES OF WEEDS, METHODS OF WEED CONTROL, SAFE AND EFFECTIVE USE OF HERBICIDES, AND APPLICATION EQUIPMENT. SOME TOPICS INCLUDED ARE: (1) SELECTIVE AND NONSELECTIVE HERBICIDES; (2) PLANT GROWTH REGULATORS; (3) FACTORS AFFECTING CHEMICAL WEED CONTROL SUCH AS STAGES OF GROWTH AND TIME OF YEAR; AND (4) WOODY PLANT CONTROL. (BB)

INSTITUTION NAME: CALIFORNIA UNIV., BERKELEY. EXTENSION DIV.

IRIS ACCESSION NUMBER: EW003893

ERIC ACCESSION NUMBER: ED160395

PUBLICATION DATE: 75

TITLE: DOMESTIC RODENT CONTROL TRAINING MANUAL: A TRAINING AID FOR THE RODENT CONTROL CATEGORY FOR CERTIFICATION OF PESTICIDE APPLICATORS.

PERSONAL AUTHOR: CHILDRESS, WILLIAM R., JR.; AND OTHERS

INSTITUTION CODE: BBB11696; BBB15934

DESCRIPTOR: *AGRICULTURAL CHEMICAL OCCUPATIONS; GUIDES; HEALTH; *MANUALS; *PESTICIDES; *RATS; *RODENTICIDES; SCIENCE EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 71P.; FOR RELATED DOCUMENTS, SEE SE 024 947-949; NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEFEB79

ABSTRACT: THIS TRAINING MANUAL, DESIGNED FOR TRAINING APPLICANTS WHO WISH TO OBTAIN CERTIFICATION IN PESTICIDE APPLICATION RELATIVE TO RODENT CONTROL, COVERS THE FOLLOWING TOPICS: ECONOMIC FACTORS, PUBLIC HEALTH FACTORS, BIOLOGICAL CHARACTERISTICS OF DOMESTIC RODENTS, RAT AND MOUSE SIGNS, TRAPPING, REPELLENTS, POISONS, BAITS, POISONED WATER, DUMPS, SEWERS, GASSING, FUMIGATION, DEAD RAT ODORS, AND RATPROOFING. (BB)

INSTITUTION NAME: DISTRICT OF COLUMBIA DEPT. OF ENVIRONMENTAL SERVICES, WASHINGTON, D.C.; DISTRICT OF COLUMBIA UNIV., WASHINGTON, D.C. COOPERATIVE EXTENSION SERVICES.

IRIS ACCESSION NUMBER: EW003894

ERIC ACCESSION NUMBER: ED160356

PUBLICATION DATE: 76

TITLE: CONTROL OF FISH AND AQUATIC PLANTS.

PERSONAL AUTHOR: HESSER, R. B.; AND OTHERS

INSTITUTION CODE: BBB06081; SYN71965

DESCRIPTOR: BIOLOGY; *ECOLOGY; ENVIRONMENTAL EDUCATION; *EXTENSION EDUCATION; FISHERIES; *HERBICIDES; *PLANT IDENTIFICATION; PLANT SCIENCE; PUBLIC HEALTH; *WATER RESOURCES; *WILDLIFE MANAGEMENT; *PENNSYLVANIA STATE UNIVERSITY

EDRS PRICE: EDRS PRICE MF-$0.83 HC-$2.06 PLUS POSTAGE.

DESCRIPTIVE NOTE: 36P.; FOR RELATED DOCUMENTS, SEE SE 024 723-736

ISSUE: RIEFEB79

ABSTRACT: THIS AGRICULTURE EXTENSION SERVICE PUBLICATION FROM PENNSYLVANIA STATE UNIVERSITY IS A HANDBOOK FOR THE WATER BODY MANAGER. THE BULK OF THE CONTENTS DEALS WITH AQUATIC PLANT CONTROL. THE DIFFERENT TYPES OF AQUATIC PLANTS, THEIR REPRODUCTION AND GROWTH, AND THEIR ROLE IN THE ECOLOGY OF THE WATER BODY ARE INTRODUCED IN THIS MAIN SECTION. ALSO, THE VARIOUS MANAGEMENT AND CONTROL PRACTICES ALONG WITH SOME SAFETY PRECAUTIONS FOR USING HERBICIDES ARE DISCUSSED. IN THE SECOND SECTION THE PROBLEM OF FISH MANAGEMENT AND CONTROL, INCLUDING LEGAL RESTRICTIONS, IS EXAMINED. (MR)

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF AGRICULTURE.; PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COOPERATIVE EXTENSION SERVICE.

IRIS ACCESSION NUMBER: EW003895

PUBLICATION DATE: 75

TITLE: CHEMICAL EQUILIBRIUM.

PERSONAL AUTHOR: GUENTHER, WILLIAM B.

DESCRIPTOR: ACIDS; BASES; *CHEMISTRY; *CHEMICAL ANALYSIS; *COLLEGE SCIENCE; ENVIRONMENT; HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; PH; *TEXTBOOKS; *CHEMICAL EQUILIBRIUM

ABSTRACT: THIS TEXT PROVIDES A PRACTICAL INTRODUCTION TO AQUEOUS EQUILIBRIUM PHENOMENA FOR STUDENTS AND WORKERS IN CHEMISTRY, BIOCHEMISTRY, AND INTERDISCIPLINARY ENVIRONMENTAL FIELDS. EMPHASIS IS PLACED ON THE USE OF CORRECTED, CONDITIONAL EQUILIBRIUM CONSTANTS AND ON THE CHECKING OF NUMERICAL RESULTS BY SUBSTITUTION IN COMPLETE EQUATIONS AND/OR AGAINST GRAPHS. EACH OF THE TWELVE CHAPTERS DEALS WITH A DIFFERENT ASPECT OF ACID-BASE RELATIONS. NUMEROUS EXERCISES ARE INCLUDED WITH ANSWERS AND HINTS FOR SOLUTION. (CS)

AVAILABILITY: PLENUM PUB. CORP., 227 W. 17TH ST., NW, NEW YORK, NY 10011 ($19.50)

IRIS ACCESSION NUMBER: EW003896

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL DYMANICS OF PESTICIDES.

PERSONAL AUTHOR: HAQUE, RIZWANUL, ED.; FREED, V. H., ED.

DESCRIPTOR: *AIR; BIOLOGY; *CHEMISTRY; CHLORINATED HYDROCARBONS; ENVIRONMENT; *ENVIRONMENTAL CHEMODYNAMICS; HYDROLOGY; *PESTICIDES; POLLUTION; POISONS; *SOILS; TOXICITY; *WATER

ABSTRACT: THIS TEXT PRESENTS THE PROCEEDINGS OF A SYMPOSIUM ON THE ENVIRONMENTAL DYNAMICS OF PESTICIDES CONDUCTED BY THE NATIONAL AMERICAN CHEMICAL SOCIETY. THE PAPERS DEAL WITH THE BEHAVIOR OF CHEMICALS IN AIR, WATER, SOIL, AND BIOTA. FOCUS IS ON TRANSPORT OF CHEMICALS IN THE ENVIRONMENT. SPECIFIC TOPICS DISCUSS PHOTOCHEMICAL BEHAVIOR; ADSORPTION, LEACHING AND BREAKDOWN; VAPOR LOSS; INTERACTION WITH BIOLOGICAL MACROMOCULES; AND DETOXICATION BY BIOTA. (CS)

AVAILABILITY: PLENUM PRESS, 227 W. 17TH ST. NW, NEW YORK, NY 10011 ($29.50)

IRIS ACCESSION NUMBER: EW003897

PUBLICATION DATE: 78

TITLE: ECOLOGY OF PESTICIDES

PERSONAL AUTHOR: BROWN, A. W. A.

DESCRIPTOR: BIRDS; CHEMISTRY; *ECOLOGY; *ENVIRONMENT; HERBICIDES; INSECTICIDES; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *PESTICIDES; PUBLIC HEALTH; WEEDS

DESCRIPTIVE NOTE: 525P.

ABSTRACT: THIS TEXT REPORTS ON RESEARCH PERFORMED ON THE SIDE-EFFECTS OF INSECTICIDES, HERBICIDES, AND FUNGICIDES ON MICROORGANISMS, INVERTEBRATES, FISH, MAMMALS AND BIRDS. TOPICS EXPLORED INCLUDE THE CHEMICAL AND BIOTIC METABOLISM OF THE PESTICIDE AND ITS FATE IN SOIL AND WATER; SIDE EFFECTS ON PREDATORS, PARASITES AND NON-TARGET ORGANISMS, AND FOOD-CHAIN MAGNIFICATION. ALSO PRESENT IS AN IN-DEPTH LOOK AT IMPORTANT PESTICIDES AND THEIR ENVIRONMENTAL CHARACTERISTICS. A SET OF TABLES IS SUPPLIED WHICH PRESENT DATA ON DOSAGE AND DEGREE OF TOXICITY. (CS)

AVAILABILITY: JOHN WILEY SONS, ONE WILEY DR., SOMERSET, NJ 00873 ($25.00)

IRIS ACCESSION NUMBER: EW003898

PUBLICATION DATE: 71

TITLE: PESTICIDES AND FRESHWATER FAUNA.

PERSONAL AUTHOR: MUIRHEAD-THOMSON, R. C.

DESCRIPTOR: AQUATIC ANIMALS; ENVIRONMENT; FISH; INSECTS; *INSTRUCTIONAL MATERIALS; INVERTEBRATES; LABORATORY TECHNIQUES; NATURAL RESOURCES; *PESTICIDES; *POLLUTION; POST SECONDARY EDUCATION; PUBLIC HEALTH; TOXICITY; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 248P.

ABSTRACT: THE THRUST OF THIS TEXT IS THE CONCERN ABOUT THE IMPACT OF PESTICIDES IN GENERAL ON ANIMAL LIFE IN FRESH WATER, PARTICULARLY ON FRESH WATER FISH AND AQUATIC INVERTEBRATES WHICH LIVE IN LAKES, PONDS, RIVERS, STREAMS AND OTHER WATER BODIES. THE REVIEW INCLUDES A GREAT AMOUNT OF INFORMATION AND EXPERIENCE WHICH HAS BEEN GAINED IN THE DELIBERATE CHEMICAL CONTROL OF UNDESIRABLE AQUATIC FAUNA, SUCH AS MOSQUITO LARVAE, BLACKFLIES, MIDGES, AND AQUATIC SNAILS, AS WELL AS TRASH, FISH, AND UNDESIRABLE PREDATORS. THIS BOOK ALSO ASSESSES AN EQUALLY VARIED WEALTH OF INFORMATION ABOUT PESTICIDE IMPACT ON WATER BODIES BROUGHT ABOUT BY INCIDENTAL, INDIRECT, OR ACCIDENTAL METHODS. AN EXTENSIVE BIBLIOGRAPHY IS INCLUDED FOR REFERENCE. (CS)

AVAILABILITY: ACADEMIC PRESS, 111 FIFTH AVE., NEW YORK, NY 10003 ($14.65)

IRIS ACCESSION NUMBER: EW003899

PUBLICATION DATE: MAY 77

TITLE: SAFE STORAGE AND DISPOSAL OF PESTICIDES.

DESCRIPTOR: *GUIDELINES; *PESTICIDES; PUBLIC HEALTH; *SAFETY; *WASTE DISPOSAL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 8P.

ABSTRACT: THESE GUIDELINES COVER THE DISPOSAL AND STORAGE OF PESTICIDE PRODUCTS AS WELL AS ANY UNUSED MIXTURE OR EXCESS PRODUCT AND RESIDUES IN EMPTY CONTAINERS OR SPRAY TANKS. THE DISPOSAL OF CONTAINERS IS ALSO DISCUSSED. THE GUIDELINES PRESENTED ARE THE MINIMUM STANDARDS REQUIRED TO MEET EPA REGULATIONS. (CS)

AVAILABILITY: U.S. EPA, OFFICE OF PUBLIC AFFAIRS, PRINTING AND MANAGEMENT 215, WASHINGTON, DC 20460 (FREE)

INSTITUTION NAME: U.S. EPA, OFFICE OF PUBLIC AFFAIRS.

IRIS ACCESSION NUMBER: EW003900

PUBLICATION DATE: 77

TITLE: PESTICIDES IN AQUATIC ENVIRONMENTS.

PERSONAL AUTHOR: MOHAMMED ABDUL QUDDUS KHAN

DESCRIPTOR: *AQUATIC ANIMALS; AQUATIC PLANTS; *BIODEGRADATION; BIOLOGY; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; METABOLITES; *PEST CONTROL; *PESTICIDES; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 257P.

ABSTRACT: THIS BOOK IS DIVIDED INTO THREE PARTS COVERING THE DYNAMICS OF PESTICIDES IN THE AQUATIC ENVIRONMENT, THE DYNAMICS OF PESTICIDES IN AQUATIC ORGANISMS, AND THE DEGRADATION OF PESTICIDES AND OTHER FOREIGN CHEMICALS BY AQUATIC ORANISMS. THE FIRST PART DISCUSSES THE SOURCES AND PRESENT STATE OF PESTICIDAL CONTAMINATION OF BODIES OF WATER, THE PHYSICOCHEMICAL CHARACTERISTICS THAT DETERMINE THE FATE OF PESTICIDES IN WATER AND ITS ABSORPTION BY AQUATIC ORGANISMS. THE SECOND SECTION COVERS THE FACTORS RESPONSIBLE FOR THE PICK-UP AND BIOCONCENTRATION OF PESTICIDES. IT ALSO INCLUDES DATA ON THE ELIMINATION OF ABSORBED PESTICIDES BY AQUATIC ANIMALS. THE THIRD SECTION GIVES A REVIEW OF THE METABOLISM OF PESTICIDES BY AQUATIC ANIMALS. IN VIVO AND IN VITRO PATHWAYS FOR PESTICIDES, DRUGS, CARCINOGENS, AND JUVENOIDS IN MARINE AND FRESH WATER ORGANISMS ARE GIVEN. (AUTHOR/BB)

AVAILABILITY: PLENUM PUB. CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($39.50)

IRIS ACCESSION NUMBER: EW003901

PUBLICATION DATE: 78

TITLE: CHEMISTRY PHARMACOLOGY AND ENVIRONMENTAL TOXICOLOGY.

PERSONAL AUTHOR: RAO, K. RANGA, ED.

DESCRIPTOR: *BIODEGRADATION; BIOLOGY; *CHEMICAL ANALYSIS; ECOLOGY; ECOSYSTEM; *ENVIRONMENT; METABOLITES; *PENTACHLOROPHENAL; *PHYSIOLOGY; *TOXICOLOGY

DESCRIPTIVE NOTE: 402P.

ABSTRACT: THIS VOLUME IS A COLLECTION OF PAPERS PRESENTED AT AN INTERNATIONAL SYMPOSIUM ON THE CHEMISTRY, PHARMACOLOGY, AND ENVIRONMENTAL TOXICOLOGY OF PENTACHLOROPHENOL (PCP). THE PAPERS ARE ASSEMBLED IN THREE MAJOR SECTIONS. THE FIRST SECTION DEALS WITH THE USAGE AND ENVIRONMENTAL FATE OF PCP. TOPICS INCLUDED IN THIS SECTION ARE THE ENTRANCE OF PCP INTO THE AQUATIC ENVIRONMENT, PHOTOLYSIS OF PCP, DEGRADATION OF PCP IN SOIL, THE FATE OF PCP IN THREE LABORATORY MODEL ECOSYSTEMS, AND THE IDENTIFICATION OF PCP DEGRADATION PRODUCTS BY THIN-LAYER CHROMATOGRAPHY. THE SECOND SECTION DEALS WITH COMPARATIVE TOXICOLOGY AND PHARMACOLOGY AND INCLUDES THE METABOLISM OF PCP BY BACTERIA, BLUE CRABS, RAINBOW TROUT; A REVIEW OF PCP METABOLISM IN FISH AND SHELLFISH; AND A STUDY OF DECHLORINATION OF PCP IN RATS. THE LAST SECTION CONTAINS PAPERS ON THE IMPURITIES IN COMMERCIAL PCP PRODUCTS, THE GENETIC ACTIVITY OF PCP AND ITS IMPURITIES, AND HUMAN EXPOSURE TO PCP AND ITS IMPURITIES. (BB)

AVAILABILITY: PLENUM PUB. CORP. 227 W 17TH ST., NEW YORK, NY 10011 ($37.50)

IRIS ACCESSION NUMBER: EW003902

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL POLLUTION BY PESTICIDES.

PERSONAL AUTHOR: EDWARDS, C. C., ED.

DESCRIPTOR: BIODEGRADATION; *DEGRADATION; *ENVIRONMENT; METABOLITES; PERSISTENT PESTICIDES; *PESTICIDES; *POLLUTION; RESIDUAL PESTICIDES; *RESIDUES; *PEST CONTROL; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 542P.

ABSTRACT: THIS BOOK BRINGS TOGETHER DATA ON PESTICIDE RESIDUES, NOT ONLY IN PLANTS AND ANIMALS, BUT ALSO IN AIR, WATER AND SOIL. THE FIRST CHAPTER IS ON METHODS AND PROBLEMS IN ANALYZING PESTICIDE RESIDUES IN THE ENVIRONMENT. THE REMAINING 12 CHAPTERS DISCUSS PESTICIDE RESIDUES IN PLANTS, SOIL INVERTEBRATES, AQUATIC INVERTEBRATES, FISH, BIRDS AND MAMMALS, MAN, FOOD, ATMOSPHERE, SOIL AND WATER, AND THE DEGRADATION OF PESTICIDE RESIDUES IN THE ENVIRONMENT. WHENEVER POSSIBLE, INFORMATION IS PROVIDED IN EACH CHAPTER ON THE FOLLOWING ASPECTS: THE AMOUNTS OF RESIDUES COMMONLY OCCURRING, THE PRINCIPAL SOURCES OF THE RESIDUES, FACTORS INFLUENCING THE PERSISTENCE OF THE RESIDUES, HAZARDS CAUSED BY THE RESIDUES, METHODS OF MINIMIZING OR REMOVING RESIDUES FROM THE ENVIRONMENT AND POSSIBLE FURTHER INVESTIGATIONS. (AUTHOR/BB)

AVAILABILITY: PLENUM PRESS, 227 WEST 17TH, NEW YORK, NY 10011 ($45.00)

IRIS ACCESSION NUMBER: EW003903

PUBLICATION DATE: 77

TITLE: PHYSIOLOGICAL RESPONSES OF MARINE BIOTA TO POLLUTANTS.

PERSONAL AUTHOR: VERNBERG, F. JOHN; AND OTHERS

DESCRIPTOR: *AQUATIC ANIMALS; *AQUATIC PLANTS; BIOLOGY; *ENVIRONMENT; HEAVY METALS; *MARINE BIOLOGY; *OCEANOLOGY; ORGANIC COMPOUNDS; *PESTICIDES; *PHYSIOLOGY; POLLUTANTS; *POLLUTION; PCB; DDT; OIL; TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 462P.

ABSTRACT: THIS BOOK CONTAINS PAPERS ON THE EFFECTS OF PETROLEUM PRODUCTS, HEAVY METALS, PESTICIDES, AND PCB'S O THE PHYSIOLOGY OF MARINE ORGANISMS. PART ONE (PESTICIDES AN PCB'S) CONTAINS SEVEN PAPERS. THESE ARE ON THE EFFECTS O MALATHION, AROCLOR 1016, HALOWAX 1099, PCB, DDT, AN CARBAMATES ON SUCH ORGANISMS AS HORSESHOE CRABS, AN STEELHEAD TROUT. PART TWO (HEAVY METALS) PRESENTS SEVE PAPERS ON METHYLMERCURY, SELENIUM, CADMIUM, AND CHROMIUM ORGANISMS INCLUDE SHRIMP, FLOUNDER, AND LOBSTER. PART THRE (PETROLEUM HYDROCARBONS) COVERS EFFECTS ON THE HEART RATE O FISH EMBRYOS, BREATHING OF SALMON FRY, METABOLIC EFFECTS SIZE, AND REPRODUCTION. PART FOUR, ON FACTOR INTERACTION PRESENTS TWO PAPERS. THEY ARE ON INTERACTIONS OF TEMPERATUR AND CHLORINE ON THE SURVIVAL OF FISH, AND THE EFFECTS OF DD AND MIREX ON THE REPRODUCTION OF A SALT MARSH FISH. PAR FIVE PRESENTS FOUR PAPERS OF GENERAL INTEREST. (BB)

AVAILABILITY: ACADEMIC PRESS INC., 111 FIFTH AVE., NE YORK, NY 10003 ($21.50)

IRIS ACCESSION NUMBER: EW003918

ERIC ACCESSION NUMBER: ED097207

PUBLICATION DATE: 74

TITLE: PROCEEDINGS OF THE SUMMER INSTITUTE ON BIOLOGICA CONTROL OF PLANT INSECTS AND DISEASES.

PERSONAL AUTHOR: MAXWELL, FOWDEN G., ED.; HARRIS, F. A. ED.

DESCRIPTOR: *AGRICULTURAL PRODUCTION; AGRICULTURE BIOLOGICAL SCIENCES; BIOLOGY; *ENTOMOLOGY; INSECTICIDES NATURAL RESOURCES; *PESTICIDES; *PLANT PATHOLOGY; *PLAN SCIENCE; PEST MANAGEMENT

EDRS PRICE: EDRS PRICE MF-$1.05 HC-$31.80 PLUS POSTAGE

DESCRIPTIVE NOTE: 655P.

ISSUE: RIEFEB75

ABSTRACT: THIS INSTITUTE, CONDUCTED AT MISSISSIPPI STAT UNIVERSITY, WAS AN OUTGROWTH OF THE COUNCIL OF HIGHE EDUCATION IN THE AGRICULTURAL SCIENCE'S EFFORTS TO STUDY TH NEEDS AND OPPORTUNITIES FOR THE ADVANCEMENT OF SCIENTIFI KNOWLEDGE IN LAND GRANT INSTITUTIONS AND RECOMMEND PROGRAM FOR IMPLEMENTATION. THE PROCEEDINGS SERVE AS AN INFORMATIO SOURCE TO THOSE INTERESTED IN IMPLEMENTING AND/OR FURTHE DEVELOPING PROGRAMS CONCERNING PEST MANAGEMENT. FOCUSING O THE SOUTHERN REGION OF THE UNITED STATES, THE PUBLICATION I DIVIDED INTO FIVE PARTS AS FOLLOWS: PART I, CONCEPTS OF PES MANAGEMENT, INCLUDES HISTORICAL PERSPECTIVES, ECOLOGICA PRINCIPLES, APPROACHES TO MEASURING POPULATIONS AND THE LIF SYSTEM CONCEPTS. PART II, PARASITES AND PREDICTORS O ARTHROPODS, CONSISTS OF STATEMENTS ON SUCH TOPICS AS TH STATUS OF BIOLOGICAL CONTROL PROCEDURES, IDENTIFICATION AN CLASSIFICATION, MEANS TO INCREASE NATURAL ENEMIES AN SELECTIVE USE OF INSECTICIDES. PART III DISCUSSES BIOLOGICA CONTROL OF WEEDS, INCLUDING AQUATIC WEEDS. PART IV, HOS PLANT RESISTANCE FOR CONTROL OF PLANT PATHOGENS AND INSECTS INCLUDES STATEMENTS ON DISEASE RESISTANCE, TECHNIQUES O BREEDING FOR RESISTANCE AND BIOCHEMICAL BASES OF RESISTANC OF PLANTS. PART V, INSECT PATHOGENS, COMPRISE MICROBIOLOGICAL DISCUSSIONS INCLUDING BACTERIA, VIRAL PROTOZOAN AND FUNGAL PATHOGENS. (MLB)

AVAILABILITY: THE UNIVERSITY PRESS OF MISSISSIPPI, 382 RIDGEWOOD ROAD, JACKSON, MS 39211 ($12.50)

IRIS ACCESSION NUMBER: EW003919

ERIC ACCESSION NUMBER: ED159009

PUBLICATION DATE: 76

TITLE: TRAINING COURSE ON WATER POLLUTION. RED SEA & GULF OF ADEN PROGRAMME (PERSGA).

INSTITUTION CODE: BBB15854

DESCRIPTOR: BIOLOGY; CHEMISTRY; *COURSE CONTENT; *CURRICULUM; *EDUCATIONAL PROGRAMS; ENVIRONMENTAL EDUCATION; *HIGHER EDUCATION; *POLLUTION; *POST SECONDARY EDUCATION PROFESSIONAL EDUCATION; SCIENCE EDUCATION; TRAININ TECHNIQUES; WATER POLLUTION CONTROL; ARAB STATES

EDRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NO AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 8P.; FOR RELATED DOCUMENTS, SEE SE 02 782-787; NOT AVAILABLE IN HARD COPY DUE TO MARGINA LEGIBILITY OF ORIGINAL DOCUMENT

ISSUE: RIEJAN79

ABSTRACT: THIS DOCUMENT PRESENTS A TRAINING COURSE ON WATE POLLUTION DEVELOPED BY THE STAFF OF THE NATIONAL RESEARC CENTER, CAIRO, EGYPT. THIS COURSE, WHICH IS ORGANIZED BY TH ARAB LEAGUE EDUCATIONAL, CULTURAL AND SCIENTIFI ORGANIZATION (ALECSO), IS INTENDED FOR JUNIOR BACHELOR O SCIENCE (B.S.) GRADUATES FROM VARIOUS ARAB COUNTRIES. TH DURATION OF THE COURSE IS SEVEN WEEKS. IT COVERS FIVE AREAS: (1) MICROBIOLOGY OF WATER AND SEWAGE WATER; (2) THE ROLE O AQUATIC ORGANISMS AS INDICATORS OF POLLUTION; (3) CHEMICA METHODS FOR DETECTING POLLUTION; (4) WATER QUALITY CRITERIA AND (5) DOMESTIC AND INDUSTRIAL LIQUID WASTES. THE COURS CONTENT IS PRESENTED AND DESIGNED TO BE TAUGHT IN ARABIC. (HM)

INSTITUTION NAME: ARAB ORGANIZATION FOR EDUCATION AN SCIENCE, CAIRO (EGYPT).

IRIS ACCESSION NUMBER: EW003920

ERIC ACCESSION NUMBER: ED161703

PUBLICATION DATE: 78

TITLE: PAYING FOR POLLUTION: WATER QUALITY AND EFFLUENT CHARGES. PROCEEDINGS FROM A CONFERENCE (CHICAGO, ILLINOIS, MAY 19, 1977).

NSTITUTION CODE: FGK19105

ESCRIPTOR: *CONFERENCE REPORTS; *CONSERVATION ENVIRONMENT); ENVIRONMENTAL EDUCATION; *GOVERNMENT ROLE; ATURAL RESOURCES; POLLUTION; SCIENCE EDUCATION; WASTE ISPOSAL; *WATER POLLUTION CONTROL; *WATER RESOURCES; EFFLUENT CHARGES; *EFFLUENTS

DRS PRICE: EDRS PRICE MF-$0.83 PLUS POSTAGE. HC NOT VAILABLE FROM EDRS.

ESCRIPTIVE NOTE: 66P.; NOT AVAILABLE IN HARD COPY DUE TO OPYRIGHT RESTRICTIONS

SSUE: RIEMAR79

BSTRACT: THIS PUBLICATION GIVES THE PROCEEDINGS FROM A 977 CONFERENCE SPONSORED BY THE CONSERVATION FOUNDATION. ARTICIPANTS DISCUSS THE APPROPRIATE MEANS TO CONTROL WATER OLLUTION, EMPHASIZING THE USE OF EFFLUENT CHARGES AS CONOMIC INCENTIVE FOR POLLUTERS TO CLEAN UP THEIR WATERS. MA)

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BSTRACT: THIS MANUAL IS AIMED AT THE WATER AND WASTEWATER ECHNICIAN WHO HAS THE RESPONSIBILITY FOR MONITORING THE ATER ENVIRONMENT. THE TELEVISED PROGRAMMED TRAINING TRESSES THE INTERACTION OF THREE COMPONENTS: THE PROGRAM RODUCTION AND OPERATION; GROUP LEADERS; AND OPERATORS, NCLUDING DISTRIBUTION AND COLLECTION SYSTEM PERSONNEL. THE CADEMIC PROGRAMMING USED IN THIS TRAINING CONSISTS OF COLOR ELEVISION TAPES WHICH ARE DUPLICATED AND DISTRIBUTED TO THE ROUP LEADERS FOR ADMINISTRATION AND INSTRUCTION. THE PERATOR RECEIVES BOTH ACADEMIC AND TECHNICAL ON-THE-JOB RAINING WHICH LEADS TO CERTIFICATION. TOPICAL AREAS DDRESSED IN THIS DOCUMENT ARE: POLLUTION; MONITORING AND URVEILLANCE SYSTEMS; SAMPLING; DATA ANALYSIS AND RESENTATION; AND ELECTRONICS. (CS)

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ABSTRACT: THIS BOOK IS THE RESULT OF THE ENVIRONMENTAL TASK FORCE, A GROUP OF 63 ENVIRONMENTALISTS WHO WERE ASKED TO IDENTIFY AND DESCRIBE THE MOST CRITICAL ENVIRONMENTAL PROBLEMS. IT CONTAINS CHAPTERS ON POPULATION, FOOD AND AGRICULTURE, THE ENERGY ECONOMY, NATURAL RESOURCES, WATER AND AIR POLLUTION, HAZARDS OF TOXIC SUBSTANCES, LAND USE AND ECOLOGY, RECOMBINANT DNA RESEARCH, SOCIETY AND DECISION MAKING, AND THE ASSESSMENT OF VALUES. EACH CHAPTER CONTAINS A DISCUSSION OF THE PROBLEMS TO BE SOLVED AND RECOMMENDATIONS. (BB)

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*ALGEBRA	(3)	EW000243	EW001056	EW002043				
*ALKALINITY	(4)	EW000413	EW000466	EW001027	EW003121			
*ALTERNATIVE TECHNOLOGY	(1)	EW003691						
ALTERNATIVE TECHNOLOGY	(1)	EW003692						
*ALUMINATE	(1)	EW000051						

LUMINUM	(1)	EW003042						
LUMINUM SULFATE	(1)	EW000049						
MERICAN INDIANS	(1)	EW002949						
MERICAN STUDIES	(1)	EW003722						
MERICIUM	(1)	EW003543						
MMONIA	(2)	EW000467	EW003083					
MMONIUM SULFATE	(1)	EW000046						
NAEROBIC DECOMPOSITION	(1)	EW000185						
NAEROBIC DIGESTION	(1)	EW000126						
NAEROBIC DIGESTION	(1)	EW001260						
ANAEROBIC TREATMENT	(1)	EW000577						
NALYSIS	(5)	EW000288	EW002956	EW002958	EW003246	EW003544		
NALYTICAL BALANCES	(1)	EW001060						
NALYTICAL CHEMISTRY	(1)	EW003258						
NALYTICAL TECHNIQUES	(25)	EW000004	EW000032	EW000038	EW000142	EW000508	EW000511	EW000517
	EW000832	EW000833	EW000898	EW000889	EW001012	EW001406	EW001738	EW001759
	EW001833	EW001834	EW001970	EW001973	EW002609	EW002389	EW002660	EW002778
	EW003734	EW003748						
NALYTICAL TECHNIQUES	(16)	EW000139	EW000140	EW000509	EW000510	EW000512	EW000514	EW001248
	EW001249	EW001632	EW001806	EW001878	EW001879	EW001919	EW002390	EW003483
	EW003861							
NION EXCHANGE	(1)	EW003817						
ANNOTATED BIBLIOGRAPHIES	(13)	EW002170	EW002906	EW003071	EW003367	EW003368	EW003397	EW003424
	EW003437	EW003463	EW003473	EW003582	EW003669	EW003844		
ANNOTATED BIBLIOGRAPHIES	(3)	EW002999	EW003355	EW003722				
ANNUAL REPORTS	(4)	EW003103	EW003380	EW003440	EW003835			
ANNUAL REPORTS	(4)	EW003425	EW003660	EW003662	EW003665			
ANTHOLOGIES	(1)	EW003396						
ANTHRACITE	(1)	EW000040						
APPARATUS	(1)	EW002958						
APPLIANCE REPAIRING	(1)	EW003778						
APPLIED SCIENCE	(1)	EW002951						
APPRENTICESHIPS	(1)	EW003764						
APPROPRIATIVE RIGHTS	(1)	EW003689						
APTITUDE TESTS	(3)	EW003382	EW003411	EW003759				
AQUATIC ANIMALS	(5)	EW000027	EW000402	EW000575	EW003900	EW003903		
AQUATIC ANIMALS	(5)	EW000403	EW000425	EW000574	EW000691	EW003898		
AQUATIC BIOLOGY	(1)	EW002773						
AQUATIC ENVIRONMENTS	(1)	EW000841						
AQUATIC MICROBIOLOGY	(1)	EW002044						
AQUATIC MICROBIOLOGY	(1)	EW002413						
AQUATIC PEST CONTROL	(1)	EW003890						
AQUATIC PLANT MANAGEMENT	(1)	EW003107						
*AQUATIC PLANTS	(5)	EW001248	EW001249	EW002925	EW003003	EW003903		
AQUATIC PLANTS	(3)	EW000691	EW003533	EW003900				
AQUIFERS	(1)	EW000189						
ARAB STATES	(1)	EW003919						
*AREA STUDIES	(2)	EW003355	EW003394					
ARID REGIONS	(1)	EW003379						
*ARITHMETIC	(13)	EW000120	EW000239	EW000240	EW000241	EW000242	EW000244	EW000246
	EW000247	EW000275	EW000508	EW000511	EW001789	EW003005		
ARITHMETIC	(2)	EW000245	EW003006					
*ARIZONA	(1)	EW003591						
*ARKANSAS	(1)	EW003592						
*ARSENIC	(2)	EW003040	EW003559					
ARSENIC	(1)	EW003854						
ARSENICALS	(1)	EW003559						
ASBESTOS	(1)	EW003559						
*ASBESTOS CEMENT PIPES	(3)	EW000083	EW000084	EW000094				
*ASBESTOS PIPES	(1)	EW003532						
ASSEMBLY (MANUFACTURING)	(1)	EW003759						
ASSIMILATIVE CAPACITY	(1)	EW000190						
*ASSIMULATIVE CAPACITY	(1)	EW002389						
ASSOCIATE DEGREES	(1)	EW003447						
*ATTITUDES	(13)	EW002787	EW002788	EW002789	EW002790	EW002791	EW002816	EW002826

	EW002827	EW002847	EW002853	EW002942	EW003362	EW003408		
ATTITUDES	(4)	EW001275	EW002807	EW003379	EW003467			
*AUDIENCE PARTICIPATION	(1)	EW003410						
*AUDIO CASSETTES	(10)	EW002239	EW002240	EW002241	EW002242	EW002243	EW002244	EW002245
	EW002246	EW002247	EW002248					
*AUDIO EQUIPMENT	(1)	EW003490						
*AUDIOVISUAL AIDS	(90)	EW000168	EW000181	EW000185	EW000410	EW000413	EW000416	EW000419
	EW000425	EW000435	EW000467	EW000538	EW000539	EW000540	EW000541	EW000542
	EW000543	EW000544	EW000545	EW000546	EW000547	EW000548	EW000550	EW000552
	EW000556	EW000557	EW000750	EW000771	EW000784	EW000800	EW000804	EW000822
	EW000852	EW000899	EW000900	EW000901	EW000902	EW000903	EW000904	EW000974
	EW000995	EW000997	EW000998	EW000999	EW001000	EW001001	EW001097	EW001113
	EW001114	EW001115	EW001117	EW001118	EW001119	EW001128	EW001424	EW001519
	EW001608	EW001691	EW001703	EW001705	EW001762	EW001765	EW001833	EW001834
	EW002046	EW002259	EW002804	EW002806	EW002807	EW002808	EW002811	EW002812
	EW002813	EW002814	EW002815	EW002816	EW002817	EW002818	EW002819	EW003393
	EW003398	EW003490	EW003491	EW003789	EW003790	EW003791	EW003792	EW003793
	EW003794	EW003795	EW003810					
AUDIOVISUAL AIDS	(68)	EW000158	EW000164	EW000165	EW000175	EW000191	EW000553	EW000554
	EW000558	EW000563	EW000730	EW000736	EW000737	EW000742	EW000780	EW000794
	EW000801	EW000842	EW001005	EW001093	EW001205	EW001207	EW001209	EW001212
	EW001221	EW001222	EW001223	EW001224	EW001225	EW001607	EW001714	EW001721
	EW001810	EW001811	EW001867	EW002000	EW002001	EW002002	EW002184	EW002266
	EW002587	EW002588	EW002785	EW002786	EW002787	EW002788	EW002789	EW002790
	EW002791	EW002796	EW002797	EW002798	EW002799	EW002800	EW002801	EW002802
	EW002803	EW002805	EW002873	EW003291	EW003355	EW003463	EW003489	EW003556
	EW003582	EW003765	EW003821	EW003822	EW003823			
*AUDIOVISUAL INSTRUCTION	(1)	EW003379						
AUDIOVISUAL INSTRUCTION	(1)	EW003827						
AUSTRALIA	(1)	EW002040						
AUTOINSTRUCTIONAL AIDS	(2)	EW003308	EW003839					
*AUTOINSTRUCTIONAL PROGRAMS	(1)	EW003346						
AUTOINSTRUCTIONAL PROGRAMS	(1)	EW003347						
AUTOMATIC CONTROLS	(1)	EW003743						
*AUTOMATIC CONTROL SYSTEMS	(1)	EW000226						
*AUTOMATIC WASTEWATER SAMPLERS	(1)	EW002958						
*AUTO MECHANICS	(1)	EW000227						
*AUTO MECHANICS (OCCUPATION)	(5)	EW003754	EW003755	EW003756	EW003757	EW003758		
*BACKFLOW	(3)	EW000012	EW000034	EW003182				
*BACKFLOW PREVENTION	(1)	EW000090						
*BACTERIA	(1)	EW002044						
BACTERIA	(1)	EW003748						
*BACTERIAL ANALYSIS	(1)	EW000032						
BASES	(1)	EW003895						
*BASIC SKILLS	(1)	EW000442						
*BEACHES	(1)	EW001812						
*BEARINGS	(2)	EW000196	EW000197					
BEGINNING COMPETENCE	(1)	EW003400						
*BEHAVIORAL OBJECTIVES	(11)	EW003143	EW003144	EW003145	EW003146	EW003147	EW003148	EW003149
	EW003150	EW003292	EW003400	EW003778				
BEHAVIORAL OBJECTIVES	(15)	EW002510	EW002917	EW002959	EW002960	EW002961	EW002962	EW003294
	EW003342	EW003491	EW003760	EW003768	EW003772	EW003773	EW003774	EW003810
*BEHAVIOR CHANGE	(1)	EW003439						
BIBLIOGRAPHIC CITATIONS	(1)	EW003384						
*BIBLIOGRAPHIES	(21)	EW000001	EW000002	EW000112	EW000113	EW000114	EW000115	EW000844
	EW000974	EW000981	EW002088	EW003020	EW003047	EW003337	EW003397	EW003417
	EW003462	EW003467	EW003468	EW003533	EW003784	EW003785		
BIBLIOGRAPHIES	(8)	EW000609	EW003367	EW003368	EW003377	EW003491	EW003664	EW003725
	EW003844							
*BIFOULING	(1)	EW003167						
*BIOCHEMICAL OXYGEN DEMAND	(4)	EW000196	EW000852	EW003549	EW003556			
BIOCHEMICAL OXYGEN DEMAND	(5)	EW000855	EW000889	EW000991	EW002945	EW003174		
*BIOCHEMISTRY	(10)	EW000891	EW002382	EW002880	EW003545	EW003549	EW003550	EW003551
	EW003585	EW003799	EW003819					
BIOCHEMISTRY	(10)	EW000857	EW001112	EW003059	EW003191	EW003199	EW003250	EW003548
	EW003569	EW003580	EW003803					
*BIODEGRADATION	(5)	EW002940	EW003542	EW003543	EW003900	EW003901		
BIODEGRADATION	(1)	EW003902						
*BIOLOGICAL ANALYSIS	(1)	EW001012						
BIOLOGICAL ANALYSIS	(1)	EW000004						
*BIOLOGICAL CONTACTOR PROCESSES	(1)	EW003253						
*BIOLOGICAL EFFECTS	(1)	EW003024						
*BIOLOGICAL INFLUENCES	(1)	EW000846						
BIOLOGICAL INFLUENCES	(2)	EW003239	EW003360					
BIOLOGICAL NUTRIENT REMOVAL SYSTEMS	(1)	EW003496						
BIOLOGICAL REACTIONS	(1)	EW003056						
*BIOLOGICAL SCIENCES	(2)	EW003301	EW003399					

BIOLOGICAL SCIENCES	(6)	EW003236	EW003393	EW003453	EW003454	EW003492	EW003918	
*BIOLOGICAL TREATMENT	(2)	EW000119	EW000548					
BIOLOGICAL TREATMENT	(3)	EW001260	EW001631	EW002140				
*BIOLOGY	(28)	EW000400	EW000401	EW000403	EW000435	EW000574	EW000575	EW000848
	EW001020	EW001021	EW001113	EW001114	EW002014	EW002169	EW002404	EW002773
	EW002880	EW003008	EW003009	EW003119	EW003236	EW003253	EW003262	EW003268
	EW003269	EW003433	EW003437	EW003537	EW003747			
BIOLOGY	(67)	EW000027	EW000402	EW000512	EW000730	EW000888	EW000889	EW001023
	EW001025	EW001042	EW001448	EW001659	EW001833	EW002009	EW002170	EW002461
	EW002933	EW002940	EW003018	EW003047	EW003061	EW003118	EW003154	EW003165
	EW003167	EW003174	EW003193	EW003194	EW003195	EW003206	EW003219	EW003220
	EW003233	EW003246	EW003247	EW003259	EW003264	EW003265	EW003266	EW003285
	EW003304	EW003346	EW003347	EW003406	EW003421	EW003497	EW003507	EW003509
	EW003519	EW003521	EW003531	EW003545	EW003700	EW003739	EW003748	EW003749
	EW003788	EW003831	EW003836	EW003838	EW003861	EW003894	EW003896	EW003900
	EW003901	EW003903	EW003918	EW003919				
BIRDS	(1)	EW003897						
BOD	(1)	EW000142						
*BOILERS	(16)	EW000198	EW000199	EW000200	EW000201	EW000276	EW000290	EW000290
	EW000291	EW001894	EW003839					
*BOOKKEEPING	(1)	EW001052						
BOOKS	(6)	EW001258	EW001422	EW001957	EW002773	EW002775	EW003922	
*BOTANY	(1)	EW003472						
BOTANY	(6)	EW002925	EW003003	EW003219	EW003477	EW003511	EW003728	
BSCS	(2)	EW003325	EW003826					
*BUDGETING	(3)	EW000030	EW000124	EW003078				
BUDGETING	(2)	EW001387	EW003659					
BUDGETS	(1)	EW000025						
BUILDINGS	(1)	EW003860						
BUILDING TRADES	(4)	EW003764	EW003771	EW003772	EW003773			
BULLETINS	(2)	EW003004	EW003420					
*BUOYANCY DISPLACERS	(1)	EW000230						
*BUSINESS	(1)	EW000288						
BUSINESS	(2)	EW003408	EW003646					
*BUSINESS EDUCATION	(1)	EW001051						
BUSINESS EDUCATION	(2)	EW001052	EW001055					
*BUTTERFLY VALVES	(1)	EW000389						
*CADMIUM	(2)	EW001967	EW003040					
*CALCIUM	(2)	EW003085	EW003093					
*CALCIUM CARBONATE	(2)	EW003096	EW003781					
CALCIUM HYPOCHLORITE	(1)	EW000044						
*CALCULATION	(7)	EW001033	EW001034	EW003051	EW003155	EW003166	EW003176	EW003177
CALCULATION	(6)	EW003065	EW003117	EW003200	EW003202	EW003221	EW003255	
*CALCULUS	(1)	EW002043						
*CALIBRATION ADJUSTMENTS	(1)	EW001885						
*CALIFORNIA	(4)	EW001115	EW002056	EW003360	EW003593			
*CALIPERS	(1)	EW000250						
*CANADA	(5)	EW002240	EW002241	EW002242	EW002243	EW002244		
CANADA	(3)	EW002247	EW002248	EW003467				
*CARBONATES	(1)	EW003062						
CARBONATES	(1)	EW003042						
*CARBON DIOXIDE	(1)	EW003092						
CARBON DIOXIDE	(2)	EW003173	EW003174					
*CARCINOGENS	(1)	EW003747						
CAREER CHANGE	(1)	EW003381						
*CAREER EDUCATION	(4)	EW003469	EW003760	EW003762	EW003768			
CAREER EDUCATION	(1)	EW003778						
*CAREER EXPLORATION	(1)	EW003469						
*CAREER OPPORTUNITIES	(69)	EW003589	EW003590	EW003591	EW003592	EW003593	EW003594	EW003595
	EW003596	EW003597	EW003598	EW003599	EW003600	EW003601	EW003602	EW003603
	EW003604	EW003605	EW003606	EW003607	EW003608	EW003609	EW003610	EW003611
	EW003612	EW003613	EW003614	EW003615	EW003616	EW003617	EW003618	EW003619
	EW003620	EW003621	EW003622	EW003623	EW003624	EW003625	EW003626	EW003627
	EW003628	EW003629	EW003630	EW003631	EW003632	EW003633	EW003634	EW003635
	EW003636	EW003637	EW003638	EW003639	EW003640	EW003641	EW003642	EW003643
	EW003644	EW003645	EW003646	EW003647	EW003648	EW003649	EW003650	EW003651
	EW003652	EW003653	EW003654	EW003655	EW003656	EW003657		
CAREER PLANNING	(1)	EW003469						
*CASE HISTORIES	(2)	EW003048	EW003443					
*CASE STUDIES	(7)	EW001209	EW002184	EW003518	EW003568	EW003575	EW003692	EW003731
CASE STUDIES	(5)	EW003034	EW003244	EW003355	EW003359	EW003718		

*CAST IRON PIPES	(6)	EW000063	EW000065	EW000066	EW000067	EW000069	EW000091	
CAST IRON PIPES	(5)	EW000064	EW000068	EW000092	EW000093	EW001838		
CATALOGS	(2)	EW003393	EW003426					
*CATHODIC PROTECTION	(1)	EW000054						
CATION ABSORPTION	(1)	EW003817						
*CATION EXCHANGE	(1)	EW000041						
*CAUSTIC SODA	(1)	EW000054						
*CAUSTIC SODA SOLUTIONS	(1)	EW001482						
*CEMENT MORTAR	(1)	EW000075						
*CEMENT MORTAR LININGS	(2)	EW000064	EW000093					
*CEMENT PIPES	(1)	EW003532						
*CENTRIFUGAL PUMPS	(1)	EW001839						
*CERTIFICATION	(26)	EW000017	EW000018	EW000019	EW000020	EW000021	EW000022	EW000509
	EW000510	EW000512	EW001020	EW001021	EW001023	EW001024	EW001025	EW001026
	EW001027	EW003495	EW003888	EW003889	EW003890			
CERTIFICATION	(8)	EW003060	EW003422	EW003455	EW003501	EW003719	EW003821	EW003822
	EW003823							
CESIUM	(1)	EW003240						
*CHAINS	(2)	EW000202	EW000203					
*CHANGING ATTITUDES	(1)	EW003383						
*CHARTS	(1)	EW000387						
*CHEMICAL ANALYSIS	(70)	EW000032	EW000285	EW000289	EW000290	EW000291	EW000404	EW000413
	EW000443	EW000466	EW000467	EW000539	EW000540	EW000541	EW000542	EW000544
	EW000556	EW000557	EW000771	EW000852	EW000901	EW001012	EW001419	EW001757
	EW001758	EW001765	EW001878	EW001879	EW001970	EW002375	EW002380	EW002660
	EW002934	EW002939	EW003026	EW003061	EW003063	EW003065	EW003092	EW003094
	EW003096	EW003097	EW003121	EW003240	EW003247	EW003266	EW003272	EW003274
	EW003310	EW003407	EW003483	EW003548	EW003549	EW003557	EW003561	EW003584
	EW003700	EW003729	EW003734	EW003739	EW003789	EW003790	EW003791	EW003795
	EW003801	EW003802	EW003803	EW003807	EW003832	EW003895	EW003901	
CHEMICAL ANALYSIS	(40)	EW000455	EW000525	EW000833	EW001412	EW001659	EW001759	EW001973
	EW002942	EW002911	EW002933	EW002951	EW002957	EW002964	EW002965	EW003083
	EW003084	EW003085	EW003086	EW003087	EW003088	EW003090	EW003091	EW003093
	EW003095	EW003196	EW003226	EW003227	EW003246	EW003482	EW003500	EW003550
	EW003551	EW003564	EW003565	EW003786	EW003862	EW003863	EW003864	EW003865
	EW003866							
*CHEMICAL EQUATIONS	(2)	EW001064	EW001065					
*CHEMICAL EQUILIBRIUM	(2)	EW003062	EW003895					
CHEMICAL EQUILIBRIUM	(2)	EW003268	EW003269					
*CHEMICAL INDUSTRY	(36)	EW000253	EW000304	EW000305	EW000314	EW000315	EW000419	EW000750
	EW000851	EW000964	EW000967	EW000968	EW000970	EW000971	EW000980	EW000981
	EW000983	EW001088	EW001422	EW001456	EW001471	EW001478	EW001479	EW001481
	EW001482	EW001483	EW001484	EW001485	EW001486	EW001487	EW001488	EW001489
	EW001491	EW001494	EW001631	EW003786	EW003802			
CHEMICAL INDUSTRY	(15)	EW000962	EW000965	EW000969	EW001085	EW001496	EW001497	EW001498
	EW001499	EW001500	EW001501	EW001502	EW001503	EW002413	EW002461	EW003104
*CHEMICAL NOMENCLATURE	(1)	EW003552						
*CHEMICAL OXYGEN DEMAND	(4)	EW000539	EW000557	EW003086	EW003549			
CHEMICAL OXYGEN DEMAND	(2)	EW002945	EW002946					
*CHEMICAL PROPERTIES	(1)	EW003174						
CHEMICAL PROPERTIES	(1)	EW003168						
*CHEMICAL REACTIONS	(19)	EW000472	EW000841	EW000975	EW000982	EW001022	EW001064	EW001065
	EW002953	EW003010	EW003166	EW003250	EW003252	EW003277	EW003480	EW003494
	EW003542	EW003554	EW003563	EW003781				
CHEMICAL REACTIONS	(23)	EW000836	EW000857	EW000964	EW000973	EW000980	EW000981	EW002930
	EW002992	EW002994	EW002995	EW002996	EW003011	EW003062	EW003120	EW003169
	EW003197	EW003245	EW003258	EW003383	EW003566	EW003735	EW003786	EW003837
*CHEMICALS	(14)	EW000867	EW001494	EW001496	EW001497	EW001498	EW001499	EW001500
	EW001501	EW001502	EW001503	EW002241	EW002589	EW002614	EW003383	
CHEMICALS	(5)	EW001491	EW002169	EW002413	EW002461	EW002660		
*CHEMICAL SAFETY	(1)	EW000867						
CHEMICAL STRUCTURES	(1)	EW003011						
CHEMICAL TECHNICIANS	(1)	EW003161						
*CHEMICAL TRANSPORT	(8)	EW001496	EW001497	EW001498	EW001499	EW001500	EW001501	EW001502
	EW001503							
*CHEMICAL TREATMENT	(23)	EW000042	EW000043	EW000044	EW000045	EW000046	EW000047	EW000048
	EW000049	EW000050	EW000051	EW000052	EW000054	EW000055	EW000056	EW000058
	EW000059	EW000060	EW000061	EW000062	EW000111	EW001412	EW002940	EW003586
CHEMICAL TREATMENT	(5)	EW000041	EW000290	EW000692	EW001916	EW003025		
*CHEMISTRY	(104)	EW000204	EW000205	EW000264	EW000285	EW000405	EW000406	EW000408
	EW000413	EW000443	EW000466	EW000467	EW000539	EW000540	EW000541	EW000542
	EW000544	EW000556	EW000557	EW000889	EW001020	EW001021	EW001022	EW001024
	EW001027	EW001040	EW001059	EW001060	EW001061	EW001062	EW001063	EW001094
	EW001321	EW001322	EW001510	EW001757	EW001758	EW001919	EW001948	EW001949
	EW001966	EW002043	EW002169	EW002379	EW002382	EW002404	EW002930	EW002931
	EW002933	EW002934	EW002992	EW002993	EW002994	EW002995	EW002996	EW002997
	EW002998	EW003010	EW003011	EW003014	EW003061	EW003062	EW003069	EW003083
	EW003084	EW003085	EW003086	EW003087	EW003088	EW003090	EW003091	EW003093
	EW003095	EW003119	EW003120	EW003122	EW003163	EW003172	EW003173	EW003230
	EW003239	EW003248	EW003259	EW003275	EW003310	EW003448	EW003480	EW003482
	EW003496	EW003498	EW003499	EW003519	EW003523	EW003542	EW003552	EW003559
	EW003734	EW003786	EW003789	EW003790	EW003791	EW003837	EW003862	EW003895

	EW003896							
CHEMISTRY	(101)	EW000008	EW000263	EW000289	EW000398	EW000508	EW000510	EW000511
	EW000512	EW000543	EW000837	EW000841	EW000852	EW000888	EW000901	EW000974
	EW001023	EW001025	EW001026	EW001042	EW001155	EW001409	EW001412	EW001419
	EW001424	EW001448	EW001631	EW001765	EW001879	EW001894	EW002069	EW002376
	EW002418	EW002912	EW002918	EW002920	EW002932	EW002939	EW002948	EW002967
	EW003017	EW003018	EW003022	EW003023	EW003024	EW003026	EW003030	EW003047
	EW003063	EW003065	EW003118	EW003121	EW003145	EW003149	EW003150	EW003152
	EW003154	EW003164	EW003186	EW003187	EW003188	EW003195	EW003206	EW003212
	EW003218	EW003222	EW003241	EW003247	EW003249	EW003256	EW003260	EW003264
	EW003265	EW003266	EW003276	EW003396	EW003399	EW003454	EW003477	EW003483
	EW003492	EW003497	EW003507	EW003509	EW003515	EW003531	EW003536	EW003663
	EW003669	EW003712	EW003739	EW003743	EW003747	EW003749	EW003777	EW003788
	EW003832	EW003839	EW003849	EW003861	EW003897	EW003919		
CHLORINATED HYDROCARBONS	(5)	EW002940	EW003039	EW003168	EW003174	EW003896		
*CHLORINATION	(12)	EW000038	EW000044	EW000045	EW000047	EW000111	EW000837	EW002998
	EW003025	EW003498	EW003499	EW003557	EW003801			
CHLORINATION	(7)	EW000013	EW000139	EW000141	EW001260	EW001806	EW003163	EW003173
*CHLORINE	(28)	EW000045	EW000419	EW000472	EW000543	EW000556	EW000851	EW000962
	EW000964	EW000965	EW000967	EW000968	EW000969	EW000970	EW000971	EW000973
	EW000974	EW000975	EW000980	EW000981	EW000982	EW000983	EW001409	EW001479
	EW001483	EW002418	EW003087	EW003088	EW003580			
*CHLORINE DIOXIDE	(1)	EW003786						
*CHLORINE RESIDUALS	(1)	EW000111						
CHROMATES	(1)	EW001419						
*CHROMATOGRAPHY	(2)	EW001878	EW003063					
CHROMATOGRAPHY	(3)	EW001919	EW001970	EW003807				
*CHROMIUM	(1)	EW003040						
CHROMIUM	(1)	EW003043						
*CITIZEN PARTICIPATION	(7)	EW002968	EW003138	EW003156	EW003299	EW003410	EW003844	EW003850
CITIZEN PARTICIPATION	(5)	EW002999	EW003340	EW003467	EW003474	EW003847		
*CITIZEN ROLE	(1)	EW000812						
CITIZEN ROLE	(1)	EW003156						
*CITIZENS COUNCILS	(1)	EW003840						
*CITIZENSHIP RESPONSIBILITY	(1)	EW001271						
CITY GOVERNMENT	(1)	EW003410						
*CITY PLANNING	(3)	EW003015	EW003474	EW003474				
CITY PLANNING	(4)	EW002968	EW003312	EW003368	EW003468			
*CITY PROBLEMS	(1)	EW003470						
*CIVIL ENGINEERING	(2)	EW002772	EW003032					
*CLARIFICATION (WASTEWATER)	(1)	EW003821						
*CLASSIFICATION	(1)	EW003841						
*CLEANING	(2)	EW001491	EW003450					
CLEANING	(1)	EW003735						
CLIMATE CONTROL	(1)	EW001156						
*CLIMATIC FACTORS	(2)	EW003345	EW003512					
CLIMATIC FACTORS	(3)	EW003201	EW003745	EW003842				
CLUSTER ANALYSIS	(1)	EW003760						
*COAGULATION	(6)	EW000048	EW000049	EW000051	EW000052	EW000836	EW000885	
COAGULATION	(3)	EW000008	EW000829	EW001260				
*COAL	(1)	EW002047						
*COAL INDUSTRY	(1)	EW000736						
*COAL MINES	(1)	EW003858						
*COAL TAR ENAMEL	(1)	EW000074						
*COASTAL ZONES	(1)	EW003850						
*COLIFORM DETERMINATION	(2)	EW003118	EW003123					
*COLLECTION SYSTEMS	(2)	EW000118	EW000121					
COLLECTION SYSTEMS	(1)	EW000890						
COLLEGE FACULTY	(1)	EW003671						
*COLLEGE PROGRAMS	(1)	EW003427						
*COLLEGE SCIENCE	(12)	EW000538	EW002931	EW002933	EW002934	EW002940	EW003024	EW003059
	EW003062	EW003301	EW003482	EW003839	EW003895			
COLLEGE SCIENCE	(8)	EW002939	EW003010	EW003012	EW003220	EW003295	EW003427	EW003743
	EW003831							
*COLLEGE STUDENTS	(1)	EW003352						
COLLEGE STUDENTS	(1)	EW003338						
*COLLEGE TEACHERS	(1)	EW003449						
*COLOR	(1)	EW003089						
*COLORADO	(1)	EW003694						
*COLORIMETRY	(3)	EW001061	EW001062	EW001879				
*COMBUSTION	(1)	EW000205						
*COMBUSTION CONTROL	(1)	EW001651						

COMEX PROJECT	(1)	EW003470						
*COMMITTEES	(1)	EW001475						
COMMITTEES	(2)	EW003295	EW003416					
*COMMUNICATIONS	(9)	EW001053	EW001055	EW001221	EW001222	EW001223	EW001224	EW001225
	EW002000	EW002803						
COMMUNICATIONS	(5)	EW002785	EW002786	EW002826	EW003160	EW003760		
*COMMUNICATION SATELLITES	(1)	EW003313						
*COMMUNICATION SKILLS	(2)	EW003080	EW003726					
COMMUNICATION SKILLS	(1)	EW003778						
*COMMUNICATION (THOUGHT TRANSFER)	(1)	EW003383						
COMMUNITY COLLEGES	(1)	EW003449						
*COMMUNITY DEVELOPMENT	(3)	EW002619	EW003314	EW003844				
COMMUNITY DEVELOPMENT	(1)	EW003309						
COMMUNITY FACILITIES	(1)	EW003225						
*COMMUNITY HEALTH	(1)	EW003531						
COMMUNITY HEALTH	(2)	EW001396	EW003738					
*COMMUNITY HEALTH SERVICES	(1)	EW003452						
*COMMUNITY INVOLVEMENT	(2)	EW001425	EW003314					
COMMUNITY PLANNING	(4)	EW003004	EW003305	EW003312	EW003457			
COMMUNITY PROBLEMS	(2)	EW003329	EW003430					
COMMUNITY PROGRAMS	(1)	EW003314						
*COMMUNITY ROLE	(1)	EW000416						
*COMMUNITY SERVICES	(1)	EW003139						
*COMMUNITY STUDY	(1)	EW003356						
COMMUNITY SURVEYS	(1)	EW003356						
*COMPARATIVE ANALYSIS	(1)	EW003698						
COMPARATIVE ANALYSIS	(2)	EW003387	EW003827					
*COMPLIANCE	(1)	EW003571						
*COMPOSTING	(2)	EW003191	EW003567					
*COMPRESSED AIR	(1)	EW000206						
*COMPRESSED GAS	(1)	EW001485						
*COMPRESSORS	(2)	EW000207	EW000208					
COMPUTER APPLICATIONS	(1)	EW002057						
*COMPUTER ASSISTED INSTRUCTION	(2)	EW003350	EW003351					
COMPUTER ASSISTED INSTRUCTION	(3)	EW003414	EW003470	EW003765				
COMPUTER GRAPHICS	(1)	EW003373						
*COMPUTER ORIENTED PROGRAMS	(2)	EW003217	EW003373					
*COMPUTER PROGRAMS	(6)	EW003202	EW003255	EW003470	EW003512	EW003553	EW003741	
COMPUTER PROGRAMS	(2)	EW003350	EW003351					
*COMPUTERS	(1)	EW002041						
COMPUTERS	(2)	EW003554	EW003741					
COMPUTER SCIENCE	(1)	EW003765						
CONCEPT FORMATION	(1)	EW003451						
*CONCRETE PIPES	(5)	EW000029	EW000079	EW000080	EW000081	EW000082		
*CONFERENCE REPORTS	(26)	EW000192	EW000194	EW001002	EW002009	EW002011	EW002012	EW002013
	EW002014	EW002074	EW002076	EW002077	EW002084	EW003021	EW003197	EW003209
	EW003210	EW003315	EW003316	EW003318	EW003320	EW003349	EW003414	EW003558
	EW003800	EW003920	EW003920					
CONFERENCE REPORTS	(3)	EW003309	EW003402	EW003526				
*CONFERENCES	(10)	EW001042	EW001425	EW003048	EW003060	EW003067	EW003171	EW003494
	EW003498	EW003499	EW003731					
CONFERENCES	(11)	EW002460	EW003194	EW003198	EW003228	EW003245	EW003316	EW003318
	EW003461	EW003547	EW003585	EW003739				
*CONFLICT	(1)	EW003467						
*CONNECTICUT	(1)	EW003595						
*CONSERVATION	(15)	EW000737	EW000742	EW001005	EW001083	EW001115	EW001691	EW001811
	EW002956	EW003015	EW003034	EW003211	EW003362	EW003461	EW003805	EW003806
CONSERVATION	(12)	EW000158	EW001118	EW002046	EW002259	EW002949	EW003060	EW003209
	EW003210	EW003221	EW003223	EW003244	EW003537			
*CONSERVATION (CONCEPTS)	(1)	EW003746						
*CONSERVATION EDUCATION	(10)	EW003336	EW003372	EW003398	EW003425	EW003443	EW003444	EW003446
	EW003451	EW003685	EW003722					
CONSERVATION EDUCATION	(17)	EW000631	EW001275	EW002956	EW003021	EW003159	EW003160	EW003296
	EW003339	EW003340	EW003341	EW003362	EW003409	EW003423	EW003435	EW003440
	EW003453	EW003460						
*CONSERVATION (ENVIRONMENT)	(8)	EW003027	EW003320	EW003459	EW003469	EW003850	EW003920	EW003920
	EW003922							
CONSERVATION (ENVIRONMENT)	(15)	EW001276	EW002974	EW003306	EW003307	EW003312	EW003315	EW003337
	EW003342	EW003466	EW003474	EW003670	EW003716	EW003731	EW003833	EW003846
*CONSTRUCTION	(12)	EW000006	EW000028	EW000039	EW000094	EW000273	EW000800	EW001869

	EW001965	EW002184	EW003032	EW003223	EW003709			
CONSTRUCTION	(2)	EW000031	EW001041					
*CONSTRUCTION COSTS	(2)	EW003704	EW003765					
*CONSTRUCTION INDUSTRY	(4)	EW000249	EW002867	EW003771	EW003860			
*CONSTRUCTION (PROCESS)	(2)	EW003371	EW003761					
CONSTRUCTION (PROCESS)	(1)	EW003463						
*CONSUMER EDUCATION	(2)	EW003805	EW003806					
CONSUMER EDUCATION	(1)	EW000922						
*CONTENT ANALYSIS	(1)	EW003404						
CONTENT ANALYSIS	(1)	EW003405						
*CONTRACTS	(2)	EW000039	EW000831					
CONTROL GROUPS	(1)	EW003439						
*CONTROLLED ENVIRONMENT	(1)	EW003456						
CONTROLLED ENVIRONMENT	(2)	EW003312	EW003423					
*CONTROL VALVES	(2)	EW002004	EW002005					
CONVERSION TABLES	(2)	EW001033	EW001034					
*COOLING SYSTEMS	(1)	EW001412						
*COOPERATIVE PLANNING	(1)	EW003418						
*COPEPODS	(1)	EW003220						
*COPPER SULFATE	(1)	EW000058						
*CORRESPONDENCE COURSES	(4)	EW000508	EW000511	EW003106	EW003378			
CORRESPONDENCE COURSES	(1)	EW000510						
*CORROSION	(4)	EW001655	EW002995	EW002996	EW003781			
CORROSION	(2)	EW000050	EW000055					
COST BENEFIT ANALYSIS	(1)	EW003784						
*COST EFFECTIVENESS	(20)	EW001438	EW002893	EW002909	EW002946	EW002953	EW002955	EW003117
	EW003192	EW003253	EW003456	EW003468	EW003508	EW003514	EW003546	EW003692
	EW003698	EW003703	EW003708	EW003770	EW003784			
COST EFFECTIVENESS	(40)	EW000124	EW000786	EW001387	EW002077	EW002564	EW002912	EW002926
	EW002935	EW002941	EW002964	EW002965	EW002999	EW003015	EW003016	EW003034
	EW003131	EW003213	EW003238	EW003239	EW003242	EW003244	EW003337	EW003367
	EW003461	EW003535	EW003554	EW003558	EW003563	EW003566	EW003567	EW003577
	EW003578	EW003581	EW003582	EW003691	EW003693	EW003706	EW003709	EW003746
	EW003801							
*COSTS	(1)	EW000023						
COSTS	(2)	EW000014	EW002973					
*COUNCIL ON ENVIRONMENTAL QUALITY	(3)	EW003660	EW003665	EW003835				
COUNCIL ON ENVIRONMENTAL QUALITY	(1)	EW003662						
*COURSE CONTENT	(11)	EW000017	EW000018	EW000019	EW000020	EW000021	EW000022	EW000445
	EW000446	EW000447	EW002922	EW003919				
COURSE CONTENT	(22)	EW000267	EW000268	EW000269	EW000508	EW000517	EW000835	EW001382
	EW002057	EW002917	EW003157	EW003158	EW003159	EW003342	EW003460	EW003471
	EW003502	EW003674	EW003675	EW003676	EW003677	EW003766	EW003769	
*COURSE DESCRIPTIONS	(3)	EW002922	EW003161	EW003378				
COURSE DESCRIPTIONS	(8)	EW000609	EW001382	EW002916	EW002918	EW002919	EW003342	EW003668
	EW003768							
*COURSE EVALUATION	(1)	EW003328						
COURSE OBJECTIVES	(2)	EW002922	EW003355					
COURSE ORGANIZATION	(1)	EW002922						
*CRANES	(1)	EW002848						
CRITERIA	(1)	EW003496						
CRITICAL READING	(2)	EW003325	EW003826					
*CROPS	(1)	EW003533						
*CROSS-CONNECTIONS	(4)	EW000012	EW000034	EW000090	EW003717			
*CROSS CULTURAL STUDIES	(1)	EW003355						
*CULTURAL ENVIRONMENT	(1)	EW002949						
*CURRICULUM	(10)	EW000446	EW000447	EW002057	EW003001	EW003298	EW003361	EW003401
	EW003687	EW003845	EW003919					
CURRICULUM	(30)	EW000445	EW000609	EW001049	EW001051	EW001052	EW001053	EW001055
	EW001056	EW002510	EW002959	EW002960	EW002961	EW002962	EW003125	EW003485
	EW003486	EW003487	EW003488	EW003679	EW003680	EW003681	EW003682	EW003683
	EW003684	EW003686	EW003688	EW003772	EW003773	EW003776	EW003778	
*CURRICULUM DESIGN	(1)	EW003447						
CURRICULUM DESIGN	(4)	EW003391	EW003772	EW003773	EW003777			
*CURRICULUM DEVELOPMENT	(5)	EW003294	EW003400	EW003668	EW003765	EW003777		
CURRICULUM DEVELOPMENT	(9)	EW003021	EW003292	EW003293	EW003397	EW003449	EW003455	EW003465
	EW003491	EW003827						
*CURRICULUM ENRICHMENT	(1)	EW003762						
*CURRICULUM GUIDES	(22)	EW001830	EW001831	EW003160	EW003161	EW003342	EW003352	EW003358
	EW003361	EW003378	EW003388	EW003435	EW003445	EW003465	EW003469	EW003718
	EW003760	EW003765	EW003768	EW003769	EW003771	EW003772	EW003773	

CURRICULUM GUIDES	(9)	EW000609	EW003158	EW003326	EW003353	EW003371	EW003374	EW003677
	EW003774	EW003778						
*CURRICULUM PLANNING	(1)	EW003352						
CURRICULUM PLANNING	(1)	EW003777						
*CURRICULUM RESEARCH	(1)	EW003455						
*CUTTING SCORES	(2)	EW003382	EW003411					
CYANIDE	(1)	EW001419						
*CYANIDE	(1)	EW003039						
CYCLODIENES	(1)	EW003039						
*DAIRY WASTE MANAGEMENT	(1)	EW003052						
DALLAS WATER UTILITIES DEPARTMENT	(1)	EW003770						
*DAMAGE REPORTS	(1)	EW001503						
DAMS	(1)	EW002266						
*DATA	(5)	EW000014	EW000786	EW001963	EW001964	EW002823		
DATA	(2)	EW000288	EW003751					
*DATA ANALYSIS	(6)	EW002041	EW002778	EW003434	EW003436	EW003741	EW003742	
DATA ANALYSIS	(2)	EW003328	EW003433					
*DATA BASES	(1)	EW003751						
*DATA COLLECTION	(2)	EW003744	EW003745					
DATA COLLECTION	(2)	EW003421	EW003751					
*DATA EVALUATION	(1)	EW000120						
DATA PROCESSING	(1)	EW003741						
DATA SHEETS	(1)	EW003421						
DDT	(1)	EW003903						
DECIMALS	(1)	EW000241						
*DECISION MAKING	(8)	EW000187	EW000288	EW001210	EW001867	EW002000	EW002614	EW002615
	EW002873							
DECISION MAKING	(4)	EW002254	EW003314	EW003467	EW003840			
*DEEP WELLS	(1)	EW000039						
DEEP WELLS	(1)	EW003037						
DEFINITIONS	(1)	EW003288						
*DEGRADATION	(2)	EW003168	EW003902					
DEGRADATION	(1)	EW002382						
*DEGREE REQUIREMENTS	(1)	EW003671						
DEGREE REQUIREMENTS	(1)	EW003661						
*DELAWARE	(1)	EW003596						
*DELIVERY SYSTEMS	(3)	EW000971	EW000973	EW003827				
DELIVERY SYSTEMS	(1)	EW003780						
*DEL MOD SYSTEM	(2)	EW003346	EW003347					
*DEMINERALIZATION	(2)	EW001925	EW003817					
DEMINERALIZATION	(1)	EW003173						
DEMOGRAPHY	(1)	EW003744						
DEMONSTRATION PROJECTS	(1)	EW003796						
DENITRIFICATION	(1)	EW001971						
*DENTAL HEALTH	(1)	EW002591						
DENTAL HEALTH	(1)	EW003467						
*DEPLETED RESOURCES	(1)	EW003425						
DEPLETED RESOURCES	(1)	EW003722						
*DESALINATION	(1)	EW003424						
DESALINATION	(5)	EW001115	EW001925	EW002266	EW003152	EW003817		
*DESIGN	(60)	EW000006	EW000031	EW000033	EW000034	EW000063	EW000065	EW000066
	EW000068	EW000069	EW000070	EW000071	EW000087	EW000088	EW000090	EW000095
	EW000096	EW000097	EW000098	EW000099	EW000100	EW000101	EW000102	EW000105
	EW000444	EW000834	EW001166	EW001496	EW001497	EW001498	EW001499	EW001500
	EW001501	EW001502	EW001660	EW001662	EW001916	EW001948	EW001952	EW001953
	EW001954	EW002016	EW002017	EW002018	EW002035	EW002057	EW002378	EW002386
	EW002421	EW002436	EW002447	EW002460	EW002775	EW002890	EW002896	EW003032
	EW003166	EW003510	EW003530	EW003697	EW003710			
DESIGN	(24)	EW000064	EW000072	EW000073	EW000074	EW000075	EW000076	EW000077
	EW000078	EW000079	EW000080	EW000081	EW000082	EW000083	EW000084	EW000085
	EW000086	EW000089	EW000121	EW001412	EW001947	EW002390	EW003395	EW003709
	EW003717							
*DESIGN NEEDS	(1)	EW003570						
DESIGN NEEDS	(1)	EW003569						
DETERGENTS	(1)	EW003174						
DEVELOPED NATIONS	(1)	EW003165						
*DEVELOPING NATIONS	(3)	EW003070	EW003170	EW003257				
DEVELOPING NATIONS	(1)	EW003165						
*DEWATERING	(2)	EW000128	EW003053					

DEWATERING	(3)	EW001961	EW001962	EW002889				
*DIALYSIS	(1)	EW003038						
*DIATOMS	(1)	EW003836						
*DIESEL ENGINES	(4)	EW003754	EW003755	EW003756	EW003758			
DIESEL ENGINES	(1)	EW003757						
DIESEL FUEL	(1)	EW000922						
*DIFFUSION	(1)	EW003846						
*DIGITAL COMPUTERS	(1)	EW003750						
*DIRECTORIES	(6)	EW003426	EW003428	EW003478	EW003588	EW003661	EW003673	
DIRECTORIES	(1)	EW003377						
*DISASTERS	(2)	EW000110	EW001468					
*DISCIPLINE	(1)	EW001714						
DISCIPLINE	(1)	EW001608						
*DISC STEAM TRAPS	(1)	EW001887						
*DISEASE CONTROL	(6)	EW003016	EW003023	EW003513	EW003536	EW003736	EW003890	
DISEASE CONTROL	(8)	EW000472	EW000851	EW001112	EW003056	EW003059	EW003358	EW003450
	EW003557							
*DISEASES	(1)	EW003248						
DISEASES	(3)	EW003154	EW003249	EW003443				
*DISHWASHING	(1)	EW003450						
*DISINFECTION	(8)	EW000046	EW000047	EW000092	EW001032	EW003173	EW003536	EW003580
	EW003823							
DISINFECTION	(7)	EW000006	EW000008	EW000045	EW000692	EW000830	EW001806	EW003025
*DISPERSING AGENTS	(1)	EW002376						
*DISPOSAL	(11)	EW003036	EW003037	EW003039	EW003040	EW003041	EW003042	EW003044
	EW003052	EW003054	EW003543	EW003854				
DISPOSAL	(1)	EW003715						
*DISSOLVED OXYGEN	(4)	EW000540	EW000991	EW001024	EW001834			
DISSOLVED OXYGEN	(1)	EW000544						
*DISTILLATION	(2)	EW001894	EW001897					
*DISTRIBUTION SYSTEMS	(11)	EW000013	EW000014	EW000017	EW000018	EW000019	EW000020	EW000021
	EW000022	EW000028	EW000034	EW000957				
DISTRIBUTION SYSTEMS	(6)	EW000012	EW000025	EW000031	EW000890	EW001838	EW003074	
*DISTRICT OF COLUMBIA	(1)	EW003597						
DOCTORAL PROGRAMS	(1)	EW003661						
DOCTORAL THESES	(1)	EW003459						
*DOMESTIC ANIMALS	(1)	EW002932						
DOMESTIC WASTES	(1)	EW001660						
*DRAFTING	(3)	EW000210	EW000274	EW001566				
DRAFTING	(14)	EW000225	EW001569	EW001570	EW001571	EW001572	EW001573	EW001574
	EW001575	EW001576	EW001577	EW001578	EW001579	EW001580	EW003463	
*DRAINAGE	(2)	EW001044	EW003525					
*DRAWING	(1)	EW000274						
DREDGING	(1)	EW001083						
*DRILLING	(1)	EW000410						
*DRILLS	(2)	EW000211	EW001872					
*DUCTILE IRON PIPES	(2)	EW000070	EW000071					
DUCTILE IRON PIPES	(1)	EW000067						
*DYES	(2)	EW002413	EW002461					
*EARTH SCIENCE	(5)	EW003201	EW003268	EW003269	EW003305	EW003441		
EARTH SCIENCE	(7)	EW000158	EW003435	EW003496	EW003497	EW003498	EW003499	EW003533
*E. COLI	(1)	EW001833						
*ECOLOGICAL FACTORS	(11)	EW003217	EW003353	EW003458	EW003459	EW003496	EW003497	EW003498
	EW003499	EW003587	EW003716	EW003858				
ECOLOGICAL FACTORS	(12)	EW000631	EW001112	EW001244	EW003312	EW003318	EW003337	EW003342
	EW003345	EW003360	EW003531	EW003534	EW003846			
*ECOLOGY	(58)	EW000400	EW000401	EW000402	EW000403	EW000425	EW000574	EW000575
	EW000730	EW000737	EW000742	EW000848	EW001083	EW001087	EW001113	EW001114
	EW001117	EW001118	EW001271	EW002047	EW002170	EW002375	EW002376	EW002404
	EW002620	EW002773	EW003008	EW003201	EW003263	EW003296	EW003315	EW003339
	EW003345	EW003346	EW003353	EW003376	EW003393	EW003397	EW003412	EW003413
	EW003415	EW003421	EW003433	EW003537	EW003669	EW003674	EW003675	EW003682
	EW003722	EW003788	EW003858	EW003862	EW003863	EW003864	EW003865	EW003866
	EW003894	EW003897	EW003922					
ECOLOGY	(62)	EW000168	EW000181	EW000631	EW000794	EW000842	EW001096	EW001097
	EW001119	EW001275	EW001691	EW001830	EW001951	EW002044	EW002058	EW002413
	EW002592	EW002613	EW002778	EW002898	EW002928	EW002933	EW002949	EW002957
	EW003003	EW003004	EW003026	EW003059	EW003194	EW003217	EW003256	EW003268
	EW003269	EW003302	EW003303	EW003305	EW003309	EW003335	EW003337	EW003342
	EW003350	EW003351	EW003398	EW003409	EW003431	EW003432	EW003437	EW003440
	EW003453	EW003469	EW003542	EW003559	EW003587	EW003670	EW003676	EW003677
	EW003696	EW003725	EW003727	EW003738	EW003740	EW003838	EW003901	
ECONOMIC DEVELOPMENT	(1)	EW003257						
*ECONOMIC FACTORS	(1)	EW003420						

ECONOMIC FACTORS	(2)	EW003373	EW003833					
*ECONOMICS	(21)	EW000023	EW002405	EW002619	EW002620	EW002621	EW002624	EW002893
	EW002945	EW002956	EW003053	EW003078	EW003173	EW003514	EW003660	EW003698
	EW003702	EW003704	EW003705	EW003715	EW003785	EW003814		
ECONOMICS	(32)	EW000025	EW000117	EW000118	EW000288	EW000786	EW001088	EW001631
	EW001917	EW001920	EW001922	EW001963	EW002077	EW002184	EW003066	EW003126
	EW003196	EW003203	EW003214	EW003260	EW003263	EW003362	EW003412	EW003533
	EW003662	EW003665	EW003689	EW003690	EW003701	EW003744	EW003746	EW003784
	EW003835							
ECOSYSTEM	(1)	EW003901						
ECOSYSTEMS	(1)	EW003544						
EDUCATION	(1)	EW003028						
*EDUCATIONAL ASSESSMENT	(1)	EW003455						
EDUCATIONAL ASSESSMENT	(3)	EW003485	EW003684	EW003687				
EDUCATIONAL EQUIPMENT	(1)	EW000609						
EDUCATIONAL FACILITIES	(1)	EW000609						
*EDUCATIONAL INNOVATION	(1)	EW003356						
*EDUCATIONAL METHODS	(1)	EW003827						
*EDUCATIONAL NEEDS	(2)	EW002970	EW003295					
EDUCATIONAL NEEDS	(2)	EW003442	EW003447					
EDUCATIONAL OBJECTIVES	(7)	EW003001	EW003331	EW003332	EW003333	EW003334	EW003352	EW003752
*EDUCATIONAL OPPORTUNITIES	(1)	EW003002						
EDUCATIONAL OPPORTUNITIES	(1)	EW003442						
*EDUCATIONAL POLICY	(1)	EW003021						
*EDUCATIONAL PROGRAMS	(86)	EW002916	EW002917	EW002918	EW002919	EW002921	EW002966	EW002971
	EW002972	EW003125	EW003153	EW003286	EW003287	EW003328	EW003439	EW003471
	EW003502	EW003589	EW003590	EW003591	EW003592	EW003593	EW003594	EW003595
	EW003596	EW003597	EW003598	EW003599	EW003600	EW003601	EW003602	EW003603
	EW003604	EW003605	EW003606	EW003607	EW003608	EW003609	EW003610	EW003611
	EW003612	EW003613	EW003614	EW003615	EW003616	EW003617	EW003618	EW003619
	EW003620	EW003621	EW003622	EW003623	EW003624	EW003625	EW003626	EW003627
	EW003628	EW003629	EW003630	EW003631	EW003632	EW003633	EW003634	EW003635
	EW003636	EW003637	EW003638	EW003639	EW003640	EW003641	EW003642	EW003643
	EW003644	EW003645	EW003646	EW003647	EW003648	EW003649	EW003650	EW003651
	EW003652	EW003653	EW003654	EW003655	EW003656	EW003657	EW003919	
EDUCATIONAL PROGRAMS	(11)	EW002510	EW002960	EW002961	EW002962	EW003339	EW003400	EW003401
	EW003426	EW003442	EW003449	EW003845				
EDUCATIONAL RESEARCH	(1)	EW003827						
EDUCATIONAL RESOURCES	(1)	EW003393						
*EDUCATIONAL SPECIFICATIONS	(1)	EW003401						
EDUCATIONAL STRATEGIES	(1)	EW003827						
*EDUCATIONAL TECHNOLOGY	(1)	EW003414						
EDUCATIONAL TELEVISION	(1)	EW003921						
*EDUCATIONAL TRENDS	(1)	EW003427						
*EFFICIENCY	(1)	EW003770						
*EFFLUENT CHARGES	(2)	EW003920	EW003926					
*EFFLUENTS	(24)	EW000190	EW002916	EW002917	EW002918	EW002919	EW002920	EW002921
	EW003233	EW003245	EW003262	EW003471	EW003484	EW003502	EW003508	EW003548
	EW003556	EW003551	EW003696	EW003730	EW003802	EW003802	EW003833	EW003920
	EW003920							
EFFLUENTS	(7)	EW000832	EW000888	EW001088	EW001631	EW001632	EW002068	EW003861
ELECTRICAL APPLIANCE SERVICEMEN	(2)	EW003760	EW003778					
*ELECTRICAL DEVICES	(1)	EW000231						
*ELECTRICAL EQUIPMENT	(1)	EW001340						
*ELECTRICAL OCCUPATIONS	(1)	EW003778						
ELECTRICAL OCCUPATIONS	(1)	EW003760						
*ELECTRICAL RELAYS	(1)	EW001164						
*ELECTRICAL SYSTEMS	(14)	EW000302	EW000303	EW000312	EW000313	EW000532	EW001164	EW001464
	EW001652	EW001843	EW001891	EW002006	EW002007	EW003766	EW003775	
ELECTRICAL SYSTEMS	(3)	EW000389	EW001650	EW003768				
*ELECTRIC CIRCUITS	(3)	EW003765	EW003769	EW003775				
ELECTRIC CIRCUITS	(4)	EW003760	EW003766	EW003768	EW003778			
*ELECTRICIANS	(1)	EW003766						
ELECTRICIANS	(2)	EW003760	EW003778					
*ELECTRICITY	(7)	EW000212	EW000213	EW002405	EW002848	EW003076	EW003760	EW003768
ELECTRICITY	(2)	EW003463	EW003769					
ELECTRIC MOTOR ASSEMBLER	(1)	EW003759						
*ELECTRIC MOTORS	(4)	EW001645	EW003759	EW003769	EW003774			
ELECTRIC MOTORS	(2)	EW003076	EW003766					
*ELECTRIC POWER	(2)	EW001652	EW002592					
ELECTRODIALYSIS	(1)	EW003038						
*ELECTROMECHANICAL TECHNOLOGY	(1)	EW000226						

ELECTROMECHANICAL TECHNOLOGY	(3)	EW003760	EW003765	EW003768				
*ELECTRONIC CONTROL	(4)	EW000226	EW000231	EW000233	EW003769			
ELECTRONIC DATA PROCESSING	(1)	EW003373						
ELECTRONIC EQUIPMENT	(3)	EW003765	EW003766	EW003778				
*ELECTRONICS	(4)	EW000526	EW003760	EW003765	EW003768			
ELECTRONICS	(5)	EW001164	EW003743	EW003766	EW003775	EW003778		
*ELECTRONIC TECHNICIANS	(2)	EW000312	EW000313					
ELECTRONIC TECHNICIANS	(1)	EW003765						
*ELECTROTECHNOLOGY	(1)	EW003230						
*ELEMENTARY EDUCATION	(2)	EW003289	EW003290					
ELEMENTARY EDUCATION	(2)	EW003306	EW003316					
ELEMENTARY GRADES	(1)	EW003371						
*ELEMENTARY SCHOOL SCIENCE	(6)	EW003289	EW003290	EW003306	EW003430	EW003431	EW003435	
ELEMENTARY SCHOOL SCIENCE	(1)	EW003446						
*ELEMENTARY SECONDARY EDUCATION	(3)	EW000106	EW002957	EW003304				
ELEMENTARY SECONDARY EDUCATION	(1)	EW001435						
*ELEMENTARY SECONDARY EDUCATION ACT	(1)	EW003353						
ELEMENTARY SECONDARY EDUCATION ACT	(12)	EW003297	EW003302	EW003303	EW003304	EW003306	EW003307	EW003322
	EW003326	EW003340	EW003341	EW003364	EW003365			
*EMERGENCIES	(2)	EW000110	EW001468					
EMERGENCIES	(1)	EW001479						
*EMERGENCY PLANNING	(1)	EW003473						
*EMERGENCY PROGRAMS	(1)	EW001396						
EMOTIONS	(2)	EW002788	EW002853					
*EMPLOYEE RELATIONS	(2)	EW001128	EW001229					
*EMPLOYER EMPLOYEE RELATIONSHIPS	(1)	EW003797						
EMPLOYMENT	(4)	EW003680	EW003681	EW003682	EW003683			
EMPLOYMENT OPPORTUNITIES	(1)	EW003447						
EMPLOYMENT POTENTIAL	(1)	EW003381						
*EMPLOYMENT PROJECTIONS	(2)	EW003391	EW003429					
EMPLOYMENT PROJECTIONS	(2)	EW003294	EW003447					
EMPLOYMENT QUALIFICATIONS	(3)	EW002919	EW002966	EW003455				
EMPLOYMENT SKILLS	(1)	EW003400						
ENCAPSULATION	(1)	EW003586						
*ENERGY	(12)	EW002405	EW002775	EW002956	EW003214	EW003285	EW003424	EW003660
	EW003662	EW003670	EW003679	EW003683	EW003688			
ENERGY	(85)	EW001650	EW002647	EW002893	EW002933	EW003201	EW003304	EW003589
	EW003590	EW003591	EW003592	EW003593	EW003594	EW003595	EW003596	EW003597
	EW003598	EW003599	EW003600	EW003601	EW003602	EW003603	EW003604	EW003605
	EW003606	EW003607	EW003608	EW003609	EW003610	EW003611	EW003612	EW003613
	EW003614	EW003615	EW003616	EW003617	EW003618	EW003619	EW003620	EW003621
	EW003622	EW003623	EW003624	EW003625	EW003626	EW003627	EW003628	EW003629
	EW003630	EW003631	EW003632	EW003633	EW003634	EW003635	EW003636	EW003637
	EW003638	EW003639	EW003640	EW003641	EW003642	EW003643	EW003644	EW003645
	EW003646	EW003647	EW003648	EW003649	EW003650	EW003651	EW003652	EW003653
	EW003654	EW003655	EW003656	EW003657	EW003665	EW003681	EW003684	EW003685
	EW003699	EW003700	EW003716	EW003718	EW003749	EW003835		
*ENERGY CONSERVATION	(3)	EW002775	EW003320	EW003699				
ENERGY CONSERVATION	(2)	EW003319	EW003683					
ENERGY RESEARCH AND DEVELOPMENT ADM	(1)	EW003587						
*ENGINEERING	(57)	EW000033	EW000858	EW000872	EW000890	EW000891	EW001041	EW001042
	EW001043	EW001044	EW001045	EW001258	EW001419	EW001422	EW001658	EW001660
	EW001751	EW002012	EW002016	EW002018	EW002417	EW002592	EW002622	EW002894
	EW002896	EW003001	EW003182	EW003195	EW003224	EW003232	EW003237	EW003241
	EW003250	EW003254	EW003255	EW003275	EW003276	EW003389	EW003390	EW003395
	EW003427	EW003481	EW003482	EW003494	EW003510	EW003526	EW003529	EW003530
	EW003538	EW003539	EW003553	EW003683	EW003684	EW003686	EW003709	EW003743
	EW003749	EW003787						
ENGINEERING	(36)	EW000548	EW000870	EW000871	EW000957	EW001032	EW001412	EW001662
	EW001916	EW002017	EW002057	EW002378	EW002615	EW002954	EW003026	EW003051
	EW003166	EW003167	EW003218	EW003264	EW003396	EW003480	EW003485	EW003486
	EW003487	EW003488	EW003493	EW003557	EW003680	EW003681	EW003682	EW003687
	EW003710	EW003717	EW003781	EW003816	EW003841			
*ENGINEERING DRAWING	(15)	EW000210	EW000213	EW001566	EW001569	EW001570	EW001571	EW001572
	EW001573	EW001574	EW001575	EW001576	EW001577	EW001578	EW001579	EW001580
ENGINEERING DRAWING	(2)	EW000274	EW000387					
*ENGINEERING EDUCATION	(9)	EW000230	EW002377	EW002381	EW003007	EW003321	EW003661	EW003671
	EW003837	EW003839						
ENGINEERING EDUCATION	(6)	EW000210	EW000213	EW000215	EW000216	EW000217	EW000218	
*ENGINEERING EQUIPMENT	(1)	EW003231						
*ENGINEERING GRAPHICS	(1)	EW000225						
*ENGINEERING TECHNICIANS	(18)	EW000210	EW000213	EW000215	EW000216	EW000217	EW000218	EW000219
	EW000220	EW000221	EW000222	EW000223	EW000224	EW000225	EW000230	EW000249
	EW000250	EW000251	EW000257					
ENGINEERING TECHNICIANS	(11)	EW000226	EW000227	EW000231	EW000233	EW000258	EW000259	EW000260
	EW000265	EW001651	EW001868	EW003161				

*ENGINEERING TECHNOLOGY	(8)	EW002564	EW002910	EW003018	EW003056	EW003170	EW003200	EW003222
	EW003500							
ENGINEERING TECHNOLOGY	(1)	EW003765						
*ENGINEERS	(1)	EW003742						
ENGINEERS	(1)	EW003741						
*ENGINES	(2)	EW000227	EW001162					
*ENTOMOLOGY	(1)	EW003918						
ENTOMOLOGY	(2)	EW003664	EW003889					
*ENTRY WORKERS	(1)	EW003770						
*ENVIRONMENT	(172)	EW000168	EW000488	EW000563	EW000631	EW000737	EW000784	EW000794
	EW000801	EW000812	EW000842	EW000844	EW000995	EW000997	EW000999	EW001000
	EW001085	EW001085	EW001087	EW001093	EW001097	EW001113	EW001114	EW001117
	EW001118	EW001119	EW001153	EW001275	EW001302	EW001425	EW001654	EW001691
	EW001763	EW001737	EW001811	EW001917	EW001920	EW001963	EW001964	EW001967
	EW001968	EW001969	EW002002	EW002023	EW002024	EW002037	EW002039	EW002040
	EW002056	EW002058	EW002080	EW002140	EW002169	EW002170	EW002254	EW002259
	EW002375	EW002389	EW002413	EW002461	EW002614	EW002772	EW002778	EW002873
	EW002908	EW002925	EW002926	EW002943	EW002949	EW002964	EW002965	EW002968
	EW002999	EW003003	EW003004	EW003027	EW003036	EW003066	EW003127	EW003134
	EW003151	EW003152	EW003156	EW003168	EW003174	EW003175	EW003178	EW003214
	EW003274	EW003285	EW003297	EW003299	EW003300	EW003302	EW003303	EW003304
	EW003305	EW003309	EW003316	EW003326	EW003335	EW003340	EW003377	EW003380
	EW003390	EW003404	EW003406	EW003408	EW003409	EW003423	EW003425	EW003430
	EW003432	EW003433	EW003434	EW003437	EW003438	EW003462	EW003464	EW003466
	EW003474	EW003474	EW003496	EW003497	EW003520	EW003522	EW003526	EW003534
	EW003542	EW003543	EW003559	EW003586	EW003588	EW003659	EW003660	EW003662
	EW003663	EW003665	EW003669	EW003670	EW003671	EW003673	EW003696	EW003700
	EW003715	EW003719	EW003723	EW003725	EW003736	EW003737	EW003738	EW003739
	EW003740	EW003744	EW003747	EW003788	EW003796	EW003824	EW003831	EW003834
	EW003835	EW003842	EW003845	EW003858	EW003862	EW003863	EW003864	EW003865
	EW003866	EW003897	EW003901	EW003902	EW003903			
ENVIRONMENT	(217)	EW000165	EW000175	EW000181	EW000187	EW000416	EW000425	EW000558
	EW000575	EW000730	EW000736	EW000780	EW000998	EW001005	EW001012	EW001115
	EW001163	EW001166	EW001387	EW001396	EW001424	EW001438	EW001631	EW001663
	EW001810	EW001924	EW001950	EW002047	EW002355	EW002376	EW002377	EW002378
	EW002404	EW002405	EW002417	EW002436	EW002510	EW002714	EW002780	EW002931
	EW002932	EW002940	EW002959	EW002960	EW002961	EW002962	EW002970	EW002971
	EW002972	EW003000	EW003002	EW003008	EW003022	EW003024	EW003037	EW003115
	EW003117	EW003129	EW003130	EW003131	EW003132	EW003133	EW003135	EW003136
	EW003137	EW003138	EW003139	EW003154	EW003155	EW003162	EW003176	EW003177
	EW003200	EW003241	EW003246	EW003247	EW003263	EW003295	EW003296	EW003301
	EW003306	EW003307	EW003320	EW003324	EW003336	EW003341	EW003345	EW003385
	EW003387	EW003395	EW003402	EW003422	EW003427	EW003453	EW003453	EW003459
	EW003465	EW003472	EW003473	EW003481	EW003482	EW003492	EW003498	EW003499
	EW003504	EW003505	EW003506	EW003507	EW003508	EW003509	EW003510	EW003511
	EW003512	EW003513	EW003514	EW003515	EW003516	EW003517	EW003518	EW003519
	EW003521	EW003523	EW003524	EW003525	EW003527	EW003528	EW003529	EW003530
	EW003531	EW003556	EW003573	EW003584	EW003589	EW003590	EW003591	EW003592
	EW003593	EW003594	EW003595	EW003596	EW003597	EW003598	EW003599	EW003600
	EW003601	EW003602	EW003603	EW003604	EW003605	EW003606	EW003607	EW003608
	EW003609	EW003610	EW003611	EW003612	EW003613	EW003614	EW003615	EW003616
	EW003617	EW003618	EW003619	EW003620	EW003621	EW003622	EW003623	EW003624
	EW003625	EW003626	EW003627	EW003628	EW003629	EW003630	EW003631	EW003632
	EW003633	EW003634	EW003635	EW003636	EW003637	EW003638	EW003639	EW003640
	EW003641	EW003642	EW003643	EW003644	EW003645	EW003646	EW003647	EW003648
	EW003649	EW003650	EW003651	EW003652	EW003653	EW003654	EW003655	EW003656
	EW003657	EW003705	EW003706	EW003707	EW003732	EW003810	EW003836	EW003838
	EW003860	EW003889	EW003891	EW003892	EW003895	EW003896	EW003898	EW003900
	EW003921	EW003922						
*ENVIRONMENTAL AWARENESS	(1)	EW003309						
*ENVIRONMENTAL CHEMODYNAMICS	(1)	EW003896						
*ENVIRONMENTAL CONTROL	(11)	EW000854	EW001974	EW002377	EW002381	EW002615	EW002617	EW002618
	EW002620	EW002621	EW002624	EW003544				
ENVIRONMENTAL CONTROL	(5)	EW001041	EW002379	EW002380	EW002589	EW002592		
*ENVIRONMENTAL CRITERIA	(20)	EW000786	EW001438	EW002023	EW002024	EW002039	EW002911	EW002912
	EW002969	EW002973	EW003029	EW003058	EW003135	EW003136	EW003318	EW003337
	EW003415	EW003495	EW003740	EW003847	EW003888			
ENVIRONMENTAL CRITERIA	(19)	EW001276	EW001697	EW003014	EW003035	EW003064	EW003103	EW003106
	EW003212	EW003225	EW003277	EW003319	EW003360	EW003448	EW003730	EW003731
	EW003786	EW003933	EW003960	EW003890				
*ENVIRONMENTAL EDUCATION	(110)	EW000401	EW000846	EW000848	EW001096	EW001244	EW001275	EW001276
	EW001827	EW001828	EW001829	EW001830	EW001831	EW001832	EW002046	EW002957
	EW002974	EW003015	EW003017	EW003019	EW003020	EW003021	EW003023	EW003070
	EW003104	EW003107	EW003124	EW003143	EW003144	EW003145	EW003146	EW003147
	EW003148	EW003149	EW003150	EW003157	EW003158	EW003159	EW003160	EW003164
	EW003225	EW003243	EW003295	EW003297	EW003302	EW003303	EW003304	EW003306
	EW003307	EW003316	EW003325	EW003326	EW003336	EW003339	EW003340	EW003341
	EW003348	EW003349	EW003350	EW003351	EW003353	EW003354	EW003356	EW003359
	EW003360	EW003361	EW003363	EW003364	EW003365	EW003367	EW003370	EW003371
	EW003373	EW003374	EW003379	EW003393	EW003397	EW003398	EW003410	EW003412
	EW003420	EW003425	EW003435	EW003436	EW003442	EW003443	EW003444	EW003454
	EW003458	EW003465	EW003469	EW003470	EW003471	EW003658	EW003661	EW003668
	EW003674	EW003675	EW003676	EW003677	EW003681	EW003685	EW003688	EW003718
	EW003722	EW003735	EW003826	EW003832	EW003833	EW003834	EW003849	
ENVIRONMENTAL EDUCATION	(73)	EW000400	EW000402	EW000403	EW000631	EW000786	EW001258	EW001422
	EW001658	EW002044	EW002916	EW002917	EW002918	EW002919	EW002920	EW002921
	EW002922	EW002962	EW002966	EW002967	EW002975	EW003016	EW003103	EW003105
	EW003106	EW003116	EW003125	EW003153	EW003201	EW003298	EW003317	EW003318
	EW003319	EW003331	EW003332	EW003333	EW003334	EW003342	EW003352	EW003368
	EW003386	EW003388	EW003390	EW003400	EW003401	EW003427	EW003430	EW003453
	EW003466	EW003485	EW003486	EW003487	EW003488	EW003495	EW003503	EW003587
	EW003588	EW003673	EW003679	EW003680	EW003682	EW003683	EW003684	EW003686
	EW003687	EW003725	EW003729	EW003752	EW003840	EW003888	EW003894	EW003919
	EW003920	EW003920						
*ENVIRONMENTAL EFFECTS	(1)	EW003025						
ENVIRONMENTAL EFFECTS	(1)	EW003738						
*ENVIRONMENTAL IMPACT	(1)	EW003785						
*ENVIRONMENTAL IMPACT STATEMENTS	(4)	EW002023	EW002024	EW002074	EW002421			
*ENVIRONMENTAL INFLUENCES	(136)	EW000158	EW000840	EW000841	EW000851	EW000857	EW000870	EW000871
	EW000982	EW001039	EW001040	EW001041	EW001042	EW001044	EW001045	EW001085

	EW001096	EW001443	EW001456	EW002170	EW002898	EW002910	EW002954	EW003017
	EW003028	EW003030	EW003147	EW003159	EW003167	EW003102	EW003170	EW003189
	EW003190	EW003193	EW003194	EW003195	EW003196	EW003213	EW003218	EW003219
	EW003221	EW003222	EW003223	EW003228	EW003229	EW003230	EW003233	EW003237
	EW003238	EW003239	EW003242	EW003244	EW003245	EW003248	EW003249	EW003250
	EW003251	EW003253	EW003255	EW003256	EW003257	EW003259	EW003260	EW003261
	EW003262	EW003264	EW003265	EW003267	EW003268	EW003269	EW003276	EW003309
	EW003337	EW003345	EW003376	EW003396	EW003399	EW003413	EW003416	EW003476
	EW003484	EW003493	EW003536	EW003539	EW003545	EW003546	EW003547	EW003550
	EW003551	EW003557	EW003558	EW003563	EW003564	EW003565	EW003566	EW003567
	EW003568	EW003569	EW003570	EW003571	EW003575	EW003577	EW003578	EW003579
	EW003582	EW003582	EW003585	EW003667	EW003689	EW003690	EW003691	EW003692
	EW003695	EW003712	EW003713	EW003716	EW003727	EW003729	EW003733	EW003744
	EW003746	EW003749	EW003750	EW003782	EW003798	EW003799	EW003801	EW003807
	EW003811	EW003812	EW003813	EW003814	EW003815	EW003816	EW003819	EW003847
	EW003865							
ENVIRONMENTAL INFLUENCES	(80)	EW000488	EW000848	EW000872	EW000965	EW000981	EW001271	EW002564
	EW002909	EW002926	EW002923	EW002930	EW002935	EW002950	EW002951	EW002952
	EW002955	EW002964	EW002965	EW003018	EW003019	EW003023	EW003026	EW003033
	EW003046	EW003056	EW003060	EW003061	EW003062	EW003065	EW003126	EW003128
	EW003165	EW003166	EW003167	EW003169	EW003171	EW003172	EW003182	EW003191
	EW003192	EW003197	EW003206	EW003209	EW003210	EW003211	EW003217	EW003224
	EW003240	EW003252	EW003258	EW003266	EW003275	EW003293	EW003394	EW003403
	EW003415	EW003417	EW003418	EW003419	EW003470	EW003477	EW003478	EW003494
	EW003500	EW003532	EW003535	EW003538	EW003548	EW003549	EW003552	EW003553
	EW003554	EW003576	EW003693	EW003735	EW003745	EW003750	EW003800	EW003806
	EW003846							
*ENVIRONMENTAL MANAGEMENT	(1)	EW003470						
*ENVIRONMENTAL MEDIATION	(1)	EW003737						
*ENVIRONMENTAL PERSONNEL	(1)	EW003457						
*ENVIRONMENTAL POLICY ACT	(1)	EW003727						
*ENVIRONMENTAL PROTECTION AGENCY	(8)	EW001276	EW002999	EW003020	EW003103	EW003104	EW003319	EW003659
	EW003842							
ENVIRONMENTAL PROTECTION AGENCY	(6)	EW002922	EW003106	EW003116	EW003236	EW003348	EW003667	
*ENVIRONMENTAL QUALITY	(2)	EW003740	EW003784					
*ENVIRONMENTAL RESEARCH	(26)	EW001970	EW002041	EW002925	EW002928	EW002930	EW002951	EW002953
	EW003014	EW003016	EW003034	EW003035	EW003046	EW003047	EW003105	EW003151
	EW003167	EW003295	EW003315	EW003319	EW003338	EW003392	EW003403	EW003415
	EW003466	EW003726	EW003732					
ENVIRONMENTAL RESEARCH	(13)	EW001831	EW002911	EW002931	EW003029	EW003033	EW003165	EW003189
	EW003318	EW003345	EW003360	EW003713	EW003786	EW003841		
*ENVIRONMENTAL SYSTEMS ENGINEERING	(1)	EW002057						
*ENVIRONMENTAL TECHNICIANS	(44)	EW000214	EW000263	EW000264	EW000470	EW000471	EW000659	EW001382
	EW002375	EW002380	EW002510	EW002714	EW002922	EW002959	EW002960	EW002961
	EW002966	EW002967	EW002975	EW003069	EW003105	EW003106	EW003116	EW003155
	EW003178	EW003179	EW003186	EW003188	EW003317	EW003392	EW003391	EW003414
	EW003427	EW003442	EW003449	EW003457	EW003469	EW003495	EW003501	EW003540
	EW003556	EW003668	EW003822	EW003823	EW003868			
ENVIRONMENTAL TECHNICIANS	(36)	EW000204	EW000226	EW000231	EW001112	EW001242	EW001250	EW001258
	EW001660	EW002021	EW002971	EW002972	EW003072	EW003073	EW003103	EW003124
	EW003143	EW003144	EW003145	EW003146	EW003147	EW003148	EW003149	EW003150
	EW003153	EW003164	EW003236	EW003254	EW003319	EW003469	EW003480	EW003491
	EW003502	EW003530	EW003719	EW003810	EW003821			
ENVIRONMENTAL TECHNOLOGY	(4)	EW000974	EW003202	EW003242	EW003449			
*EPIDEMIOLOGY	(1)	EW003747						
*EQUIPMENT	(113)	EW000026	EW000037	EW000086	EW000087	EW000088	EW000089	EW000096
	EW000097	EW000098	EW000099	EW000135	EW000198	EW000199	EW000200	EW000201
	EW000202	EW000203	EW000207	EW000208	EW000209	EW000211	EW000216	EW000217
	EW000218	EW000219	EW000220	EW000221	EW000222	EW000223	EW000224	EW000234
	EW000237	EW000252	EW000257	EW000261	EW000262	EW000265	EW000267	EW000268
	EW000271	EW000272	EW000273	EW000276	EW000277	EW000278	EW000279	EW000280
	EW000286	EW000287	EW000306	EW000307	EW000308	EW000309	EW000526	EW000528
	EW000530	EW000533	EW001156	EW001158	EW001159	EW001161	EW001163	EW001165
	EW001166	EW001340	EW001469	EW001649	EW001650	EW001652	EW001653	EW001838
	EW001839	EW001840	EW001868	EW001872	EW001873	EW001874	EW001875	EW001876
	EW001880	EW001883	EW001884	EW001885	EW001887	EW001890	EW001892	EW001893
	EW001905	EW002004	EW002005	EW002015	EW002017	EW002237	EW002378	EW002801
	EW002802	EW002836	EW002842	EW002854	EW002855	EW002958	EW003198	EW003271
	EW003275	EW003371	EW003538	EW003691	EW003693	EW003717	EW003761	EW003781
	EW003787	EW003817						
EQUIPMENT	(105)	EW000063	EW000064	EW000065	EW000066	EW000068	EW000069	EW000070
	EW000071	EW000072	EW000073	EW000075	EW000077	EW000078	EW000079	EW000080
	EW000081	EW000082	EW000084	EW000085	EW000090	EW000091	EW000092	EW000093
	EW000094	EW000095	EW000100	EW000101	EW000102	EW000105	EW000121	EW000197
	EW000206	EW000213	EW000231	EW000235	EW000250	EW000251	EW000253	EW000258
	EW000259	EW000285	EW000291	EW000320	EW000321	EW000404	EW000470	EW000471
	EW000517	EW000529	EW000553	EW000554	EW000854	EW000871	EW001162	EW001164
	EW001644	EW001645	EW001647	EW001648	EW001651	EW001655	EW001831	EW001869
	EW001870	EW001871	EW001881	EW001882	EW001886	EW001888	EW001889	EW001895
	EW001896	EW002011	EW002012	EW002013	EW002041	EW002390	EW002419	EW002806
	EW002814	EW002815	EW002819	EW002848	EW003066	EW003144	EW003179	EW003186
	EW003187	EW003188	EW003195	EW003222	EW003232	EW003233	EW003250	EW003253
	EW003277	EW003330	EW003461	EW003484	EW003553	EW003703	EW003733	EW003772
	EW003775	EW003805						
*EQUIPMENT EVALUATION	(1)	EW003490						
*EQUIPMENT MAINTENANCE	(7)	EW000967	EW000968	EW000969	EW000970	EW003147	EW003148	EW003343
EQUIPMENT MAINTENANCE	(12)	EW001112	EW003146	EW003726	EW003754	EW003755	EW003756	EW003757
	EW003758	EW003763	EW003766	EW003772	EW003778			
*EQUIPMENT MANUFACTURERS	(1)	EW003806						
*EQUIPMENT OPERATOR	(1)	EW003761						
*EQUIPMENT (PLANT)	(1)	EW000606						
EQUIPMENT (PLANT)	(2)	EW000552	EW001088					

*EQUIPMENT (SHOP)	(1)	EW000611						
*EQUIPMENT STANDARDS	(1)	EW003000						
EQUIPMENT STANDARDS	(2)	EW001396	EW003115					
*EQUIPMENT UTILIZATION	(17)	EW000857	EW000962	EW000964	EW000965	EW000973	EW000980	EW001060
	EW001061	EW001062	EW001063	EW003167	EW003500	EW003532	EW003541	EW003557
	EW003801	EW003803						
EQUIPMENT UTILIZATION	(8)	EW000472	EW003245	EW003494	EW003536	EW003540	EW003547	EW003806
	EW003825							
*EROSION	(1)	EW000191						
EROSION	(1)	EW003533						
ESEA TITLE III	(15)	EW003297	EW003302	EW003303	EW003304	EW003306	EW003307	EW003322
	EW003326	EW003340	EW003341	EW003353	EW003364	EW003365	EW003374	EW003430
ESSAYS	(1)	EW003413						
*ESTIMATED COSTS	(1)	EW003319						
*ESTUARIES	(3)	EW000190	EW001083	EW002892				
ESTUARIES	(1)	EW003861						
EUROPE	(1)	EW003534						
EUTROPHICATION	(2)	EW001424	EW003341					
*EVALUATION	(5)	EW003072	EW003073	EW003271	EW003286	EW003701		
EVALUATION	(11)	EW001519	EW001608	EW002948	EW003206	EW003304	EW003356	EW003738
	EW003863	EW003864	EW003865	EW003866				
*EVALUATION CRITERIA	(1)	EW003401						
EVALUATION CRITERIA	(3)	EW003382	EW003411	EW003759				
*EVALUATION METHODS	(2)	EW000288	EW003061					
EVALUATION METHODS	(1)	EW003328						
*EXCAVATION	(1)	EW002849						
EXPENDITURES	(1)	EW003323						
EXPERIENTIAL LEARNING	(2)	EW003157	EW003158					
EXPERIMENTAL GROUPS	(1)	EW003439						
EXPERIMENTS	(1)	EW003386						
*EXPO 74	(1)	EW003316						
EXTENSION AGENTS	(1)	EW003329						
*EXTENSION EDUCATION	(2)	EW003107	EW003894					
EXTENSION EDUCATION	(2)	EW003495	EW003888					
*EYES	(1)	EW002841						
EYES	(1)	EW002819						
*FACILITIES	(39)	EW000001	EW000002	EW000006	EW000013	EW000014	EW000127	EW000135
	EW000800	EW000829	EW000834	EW000858	EW000871	EW000891	EW001041	EW001496
	EW001498	EW001499	EW001500	EW001501	EW001502	EW001660	EW002035	EW002057
	EW002184	EW002378	EW002460	EW002896	EW003195	EW003206	EW003271	EW003697
	EW003702	EW003704	EW003705	EW003709	EW003710	EW003726	EW003800	EW003817
FACILITIES	(10)	EW000110	EW000890	EW000962	EW001697	EW002960	EW003195	EW003222
	EW003330	EW003473	EW003703					
*FACILITIES (WASTEWATER)	(2)	EW001387	EW003060					
*FACILITY DESIGN	(1)	EW003241						
*FACILITY GUIDELINES	(1)	EW003330						
FACILITY GUIDELINES	(1)	EW003448						
*FACILITY PLANNING	(2)	EW003128	EW003456					
*FAMILY ENVIRONMENT	(1)	EW003735						
*FANS	(1)	EW001649						
*FARMERS	(1)	EW003323						
FARMERS	(1)	EW003827						
*FARM MANAGEMENT	(4)	EW003125	EW003127	EW003134	EW003689			
FARM MANAGEMENT	(4)	EW003292	EW003293	EW003372	EW003456			
*FARM OCCUPATIONS	(1)	EW003291						
FARM OCCUPATIONS	(3)	EW003292	EW003293	EW003294				
*FAYETTEVILLE TECHNICAL INSTITUTE	(1)	EW003445						
*FECAL COLIFORM	(1)	EW001833						
FEDERAL COURT LITIGATION	(1)	EW003103						
FEDERAL EXTENSION SERVICE	(1)	EW003451						
*FEDERAL GOVERNMENT	(4)	EW003417	EW003662	EW003665	EW003835			
FEDERAL GOVERNMENT	(5)	EW003380	EW003404	EW003588	EW003660	EW003673		
FEDERAL LAWS	(1)	EW003725						
*FEDERAL LEGISLATION	(19)	EW000983	EW001302	EW001697	EW002617	EW002618	EW002999	EW003079
	EW003103	EW003132	EW003138	EW003156	EW003225	EW003416	EW003442	EW003457
	EW003647	EW003659	EW003723	EW003835				
FEDERAL LEGISLATION	(17)	EW002024	EW002039	EW003082	EW003115	EW003309	EW003323	EW003432
	EW003445	EW003520	EW003658	EW003660	EW003662	EW003665	EW003725	EW003825
	EW003842	EW003847						

*FEDERAL PROGRAMS	(5)	EW001302	EW003314	EW00332	EW003432	EW003457		
FEDERAL PROGRAMS	(2)	EW003156	EW003416					
*FEDERAL RECLAMATION PROGRAM	(1)	EW003323						
*FEDERAL REGULATIONS	(2)	EW002405	EW002617					
FEDERAL ROLE	(1)	EW003780						
FEDERAL STATE RELATIONSHIP	(1)	EW003846						
*FEDERAL STATE RELATIONSHIPS	(1)	EW002618						
FEDERAL WATER POLLUTION CONTROL ACT	(1)	EW003103						
*FEDERAL WATER POLLUTION CONTROL ACT	(1)	EW003860						
FEDERAL WATER QUALITY ADMINISTRATIO	(1)	EW001302						
*FEEDBACK	(1)	EW003840						
*FERRIC SULFATE	(1)	EW000052						
*FERROUS SULFATE	(1)	EW000048						
*FERTILIZERS	(3)	EW000117	EW003214	EW003444				
FERTILIZERS	(7)	EW002169	EW002952	EW003219	EW003344	EW003363	EW003451	EW003716
*FIELD CROPS	(2)	EW003524	EW003887					
*FIELD STUDIES	(5)	EW003265	EW003359	EW003407	EW003421	EW003436		
FIELD STUDIES	(3)	EW003236	EW003262	EW003454				
FIELD TRIPS	(1)	EW003326						
*FILMS	(99)	EW000154	EW000158	EW000164	EW000165	EW000168	EW000175	EW000181
	EW000191	EW000410	EW000416	EW000419	EW000425	EW000435	EW000730	EW000736
	EW000737	EW000742	EW000750	EW000780	EW000784	EW000794	EW000800	EW000801
	EW000864	EW000822	EW000842	EW000995	EW000997	EW000998	EW000999	EW001001
	EW001005	EW001059	EW001060	EW001093	EW001097	EW001115	EW001117	EW001118
	EW001119	EW001128	EW001205	EW001209	EW001210	EW001212	EW001221	EW001222
	EW001223	EW001225	EW001424	EW001691	EW001703	EW001705	EW001714	EW001721
	EW001810	EW001811	EW002000	EW002001	EW002002	EW002016	EW002017	EW002046
	EW002047	EW002259	EW002266	EW002587	EW002588	EW002785	EW002786	EW002787
	EW002788	EW002789	EW002790	EW002791	EW002796	EW002797	EW002798	EW002799
	EW002800	EW002801	EW002802	EW002803	EW002804	EW002805	EW002806	EW002807
	EW002808	EW002811	EW002812	EW002813	EW002814	EW002815	EW002816	EW002817
	EW002818	EW002819	EW002873	EW003541				
FILMS	(14)	EW000558	EW000974	EW001000	EW001061	EW001062	EW001064	EW001065
	EW001113	EW001114	EW001207	EW001409	EW003393	EW003398	EW003540	
*FILMSTRIPS	(4)	EW001833	EW001834	EW002056	EW003556			
FILMSTRIPS	(1)	EW000974						
*FILTER PRESSES	(1)	EW000214						
*FILTRATION	(7)	EW000040	EW000214	EW001411	EW002380	EW003053	EW003275	EW003411
FILTRATION	(8)	EW000006	EW000690	EW000692	EW000829	EW001260	EW001806	EW002889
	EW003173							
FINANCIAL SERVICES	(1)	EW003078						
FINANCIAL SUPPORT	(1)	EW003847						
*FIRE EXTINGUISHERS	(1)	EW000306						
FIRE EXTINGUISHERS	(2)	EW000307	EW000553					
*FIRE HYDRANTS	(3)	EW000037	EW000087	EW000088				
*FIRE PREVENTION	(1)	EW000212						
*FIRE PROTECTION	(21)	EW000304	EW000305	EW000306	EW000307	EW000391	EW000392	EW000393
	EW000394	EW000395	EW000396	EW000397	EW000398	EW000553	EW001409	EW001469
	EW001486	EW001487	EW001488	EW001489	EW001510	EW001561		
FIRE PROTECTION	(6)	EW000554	EW001481	EW001482	EW001483	EW001484	EW001485	
*FIRES	(1)	EW002817						
*FIRST AID	(6)	EW000367	EW000975	EW000980	EW002870	EW002871	EW003277	
*FISH	(2)	EW002413	EW002461					
FISH	(3)	EW003233	EW003537	EW003898				
FISHERIES	(3)	EW003219	EW003399	EW003894				
*FLANGES	(1)	EW000077						
FLIES	(1)	EW003052						
*FLOATS	(1)	EW001877						
*FLOAT THERMOSTATIC STEAM TRAPS	(1)	EW001889						
*FLOCCULANTS	(2)	EW003251	EW003252					
*FLOCCULATION	(1)	EW000836						
FLOCCULATION	(4)	EW000006	EW000008	EW001920	EW003173			
*FLOOD CONTROL	(1)	EW000995						
FLOOD CONTROL	(2)	EW002893	EW002894					
*FLOODS	(3)	EW000033	EW000425	EW000997				
*FLORIDA	(2)	EW003340	EW003598					
FLORIDA	(1)	EW003452						
FLOURIDES	(1)	EW003042						
*FLOW MEASUREMENT	(16)	EW000033	EW000215	EW000216	EW000217	EW000218	EW000262	EW000266
	EW000269	EW000270	EW000618	EW002011	EW002012	EW002013	EW002014	EW002946

	EW003255							
FLOW MEASUREMENT	(4)	EW000271	EW001033	EW001034	EW002956			
FLOW METERS	(1)	EW000028						
*FLUID FLOW	(1)	EW003787						
*FLUID MECHANICS	(1)	EW003001						
*FLUORIDATION	(9)	EW000038	EW000060	EW000061	EW000062	EW002591	EW002997	EW003467
	EW003791	EW003792						
FLUORIDATION	(2)	EW000008	EW000139					
*FLUORIDES	(3)	EW002591	EW003091	EW003790				
FLUORIDES	(2)	EW000060	EW000061					
*FLUOSILICIC ACID	(1)	EW000062						
*FOOD	(2)	EW003133	EW003716					
FOOD	(1)	EW003722						
*FOOD CHAIN	(1)	EW001113						
*FOOD PROCESSING	(1)	EW003133						
*FOOD PROCESSING OCCUPATIONS	(3)	EW003575	EW003576	EW003577				
FOOD TECHNOLOGY	(1)	EW003865						
FORCE	(1)	EW003753						
*FOREIGN COUNTRIES	(1)	EW003534						
*FOREMEN	(1)	EW000281						
*FORESTRY	(3)	EW003129	EW003517	EW003888				
*FORK LIFTS	(2)	EW000267	EW000268					
FRACTIONS	(1)	EW000240						
FREEBORD	(1)	EW003410						
*FUEL CONSUMPTION	(2)	EW000205	EW003319					
*FUELS	(2)	EW000205	EW000922					
FUELS	(3)	EW003320	EW003343	EW003403				
*FUNDAMENTAL CONCEPTS	(1)	EW003480						
FUNGI	(1)	EW002044						
*FUNGICIDES	(1)	EW003022						
*FUTURES (OF SOCIETY)	(2)	EW003105	EW003722					
*GAGES	(2)	EW000270	EW001877					
GAME MANAGEMENT	(1)	EW003537						
*GAMES	(2)	EW001867	EW003243					
GAMES	(1)	EW003470						
*GAS	(1)	EW000922						
GAS CHLORINATION	(1)	EW003146						
*GASES	(1)	EW003066						
*GASKETS	(4)	EW000068	EW000529	EW001644	EW001647			
*GAS LAWS	(1)	EW000406						
*GAS TURBINES	(1)	EW001650						
GATB	(3)	EW003382	EW003411	EW003759				
*GATE VALVES	(1)	EW000085						
*GEARS	(6)	EW000219	EW000220	EW000221	EW000222	EW000223	EW000224	
*GENERAL APTITUDE TEST BATTERY	(3)	EW003382	EW003411	EW003759				
GENETICS	(1)	EW003713						
*GEOGRAPHY	(1)	EW003847						
GEOGRAPHY	(1)	EW003312						
*GEOLOGICAL SURVEY	(1)	EW003105						
*GEOLOGY	(5)	EW003254	EW003267	EW003318	EW003353	EW003506		
GEOLOGY	(10)	EW000158	EW001244	EW002564	EW003102	EW003132	EW003240	EW003308
	EW003312	EW003493	EW003695					
*GEOMETRIC MEAN	(2)	EW003793	EW003794					
*GEOMETRY	(2)	EW000245	EW003762					
GEOMETRY	(1)	EW000248						
*GEOPHYSICS	(1)	EW003201						
*GEORGIA	(2)	EW003599	EW003695					
*GERMANY (RUHR VALLEY)	(2)	EW002245	EW002246					
*GLOBAL APPROACH	(4)	EW003296	EW003573	EW003733	EW003830			
*GLOSSARIES	(4)	EW000003	EW003288	EW003311	EW003670			
GOVERNMENT	(1)	EW003737						
*GOVERNMENT EMPLOYEES	(2)	EW003286	EW003287					
*GOVERNMENT PUBLICATIONS	(3)	EW003103	EW003417	EW003673				
GOVERNMENT PUBLICATIONS	(6)	EW003104	EW003105	EW003116	EW003319	EW003348	EW003392	

GOVERNMENT ROLE	(5)	EW003163	EW003309	EW003406	EW003920	EW003920		
GOVERNMENT ROLE	(2)	EW003028	EW003373					
GRADE 10	(1)	EW003469						
GRADE 11	(1)	EW003778						
GRADE 12	(1)	EW003778						
GRADE 6	(1)	EW003431						
GRADE 7	(1)	EW003307						
*GRADE 9	(2)	EW003465	EW003718					
GRADE 9	(1)	EW003469						
*GRADUATE STUDY	(3)	EW003426	EW003427	EW003661				
GRADUATE STUDY	(13)	EW003485	EW003486	EW003487	EW003488	EW003679	EW003680	EW003681
	EW003682	EW003683	EW003684	EW003686	EW003687	EW003688		
*GRANTS	(3)	EW002184	EW003128	EW003796				
GRANTS	(1)	EW003546						
GRAPHICAL METHODS	(1)	EW000509						
GRAPHIC ARTS	(1)	EW000225						
*GRAPHIC ARTS	(13)	EW000387	EW001569	EW001570	EW001571	EW001572	EW001573	EW001574
	EW001575	EW001576	EW001577	EW001578	EW001579	EW001580		
*GRAPHS	(2)	EW000225	EW000387					
GRAPHS	(1)	EW000550						
GRAVEL	(1)	EW000040						
*GREAT BRITAIN	(3)	EW000870	EW000871	EW000872				
*GREAT LAKES	(2)	EW002642	EW003315					
*GREAT LAKES WATER QUALITY AGREEMENT	(1)	EW002926						
*GREENWAY DESIGN	(1)	EW003474						
*GREENWAYS	(1)	EW003474						
*GRINDERS	(1)	EW001893						
GROUNDING (ELECTRICAL)	(2)	EW000312	EW000313					
*GROUNDWATER	(22)	EW000158	EW000189	EW000410	EW000485	EW000804	EW000822	EW001044
	EW002564	EW002780	EW002884	EW002887	EW002890	EW002891	EW002897	EW002944
	EW002949	EW002950	EW003102	EW003254	EW003455	EW003493	EW003695	
GROUNDWATER	(6)	EW000780	EW002356	EW002888	EW002910	EW002943	EW003543	
GROUP ACTIVITIES	(1)	EW003356						
*GUIDELINES	(9)	EW001387	EW001697	EW002999	EW003117	EW003400	EW003401	EW003576
	EW003847	EW003899						
GUIDELINES	(2)	EW001382	EW003658					
*GUIDES	(16)	EW000039	EW003108	EW003109	EW003110	EW003111	EW003112	EW003113
	EW003114	EW003140	EW003141	EW003142	EW003152	EW003360	EW003369	EW003587
	EW003588							
GUIDES	(11)	EW000302	EW003162	EW003163	EW003359	EW003456	EW003698	EW003699
	EW003701	EW003844	EW003850	EW003893				
*HANDS	(2)	EW002840	EW002859					
*HAND SAFETY	(2)	EW000316	EW000317					
*HAND TOOLS	(3)	EW000320	EW000321	EW002842				
HAND TOOLS	(1)	EW003148						
HARDNESS	(1)	EW000055						
*HAWAII	(1)	EW003600						
HAWAII	(1)	EW003459						
*HAZARDOUS MATERIALS	(6)	EW000304	EW000305	EW000398	EW001071	EW002589	EW002774	
*HAZARDOUS POLLUTANTS	(1)	EW000780						
*HAZARDOUS WASTES	(11)	EW003036	EW003037	EW003038	EW003039	EW003040	EW003041	EW003042
	EW003043	EW003044	EW003047	EW003780				
HAZARDS	(1)	EW002589						
HEAD PROTECTION	(1)	EW002855						
*HEALTH	(6)	EW002589	EW002774	EW003154	EW003399	EW003513	EW003727	
HEALTH	(12)	EW000965	EW000981	EW002386	EW002591	EW003052	EW003071	EW003257
	EW003338	EW003377	EW003452	EW003844	EW003893			
*HEALTH CONDITIONS	(2)	EW003498	EW003499					
HEALTH CONDITIONS	(2)	EW003070	EW003452					
*HEALTH EDUCATION	(1)	EW003736						
HEALTH EDUCATION	(3)	EW003681	EW003682	EW003792				
HEALTH FACILITIES	(2)	EW001396	EW003115					
HEALTH NEEDS	(1)	EW003450						
HEALTH OCCUPATIONS	(2)	EW003113	EW003114					
HEALTH OCCUPATIONS EDUCATION	(1)	EW003449						
HEALTH PERSONNEL	(2)	EW000609	EW003106					
HEALTH SERVICES	(1)	EW003452						

HEAT	(2)	EW001871	EW002592					
*HEAT EXCHANGERS	(1)	EW001156						
*HEATING	(6)	EW000199	EW000200	EW000201	EW000205	EW001870	EW001896	
HEATING	(4)	EW000198	EW001653	EW003320	EW003343			
HEATING SYSTEMS	(1)	EW001896						
HEAT RECOVERY	(1)	EW000199						
*HEAT TRANSFER	(2)	EW003231	EW003232					
*HEAVY EQUIPMENT OPERATORS	(1)	EW003772						
*HEAVY METALS	(18)	EW001967	EW002240	EW002241	EW002242	EW002243	EW002244	EW002245
	EW002246	EW002247	EW002248	EW002413	EW002940	EW003023	EW003191	EW003258
	EW003477	EW003559	EW003579					
HEAVY METALS	(8)	EW002068	EW002074	EW002239	EW002928	EW003174	EW003196	EW003263
	EW003903							
*HERBICIDES	(11)	EW003003	EW003022	EW003107	EW003324	EW003472	EW003719	EW003729
	EW003887	EW003891	EW003892	EW003894				
HERBICIDES	(9)	EW003039	EW003344	EW003358	EW003363	EW003406	EW003422	EW003658
	EW003889	EW003897						
*HEXAMETAPHOSPHATE	(1)	EW000055						
*HIGHER EDUCATION	(29)	EW002931	EW003001	EW003173	EW003199	EW003201	EW003216	EW003221
	EW003241	EW003295	EW003470	EW003485	EW003486	EW003487	EW003488	EW003661
	EW003668	EW003671	EW003679	EW003680	EW003681	EW003682	EW003683	EW003684
	EW003686	EW003687	EW003688	EW003744	EW003838	EW003919		
HIGHER EDUCATION	(20)	EW000848	EW002933	EW002934	EW002939	EW003220	EW003256	EW003305
	EW003315	EW003316	EW003355	EW003395	EW003426	EW003685	EW003734	EW003736
	EW003742	EW003831	EW003839	EW003847	EW003895			
HIGH SCHOOL CURRICULUM	(4)	EW003363	EW003370	EW003469	EW003778			
HIGH SCHOOLS	(1)	EW003664						
*HIGH SCHOOL STUDENTS	(1)	EW003762						
HISTORY	(2)	EW001691	EW002949					
*HOISTS	(1)	EW000234						
*HOME MANAGEMENT	(2)	EW003135	EW003136					
*HOUSEHOLD PROBLEMS	(1)	EW002956						
HUMAN DEVELOPMENT	(1)	EW002975						
HUMAN ENGINEERING	(1)	EW003449						
HUMAN RELATIONS	(2)	EW003080	EW003081					
HYDRAULIC FLUID	(1)	EW000922						
*HYDRAULICS	(25)	EW000444	EW000468	EW000890	EW002564	EW002954	EW002955	EW003012
	EW003013	EW003074	EW003179	EW003221	EW003223	EW003224	EW003231	EW003254
	EW003255	EW003267	EW003308	EW003493	EW003553	EW003693	EW003717	EW003753
	EW003757	EW003787						
HYDRAULICS	(3)	EW000033	EW003018	EW003264				
*HYDROCARBONS	(1)	EW003194						
HYDROCARBONS	(2)	EW003024	EW003168					
*HYDROFLUORIC ACID	(2)	EW001478	EW001484					
HYDROGEN SULFIDE	(1)	EW003174						
*HYDROLOGY	(23)	EW000033	EW000425	EW000730	EW000794	EW000804	EW000844	EW001042
	EW001153	EW001258	EW001424	EW001751	EW002266	EW002388	EW002615	EW002887
	EW002888	EW002892	EW002894	EW002897	EW003378	EW003398	EW003493	EW003830
HYDROLOGY	(10)	EW000139	EW000485	EW000487	EW000573	EW003349	EW003352	EW003483
	EW003512	EW003533	EW003896					
*HYPOCHLORITES	(1)	EW000044						
*IDAHO	(1)	EW003601						
IHD	(1)	EW003349						
*ILLINOIS	(2)	EW003234	EW003602					
ILLINOIS	(2)	EW003127	EW003668					
*ILLUSTRATIONS	(1)	EW000135						
*IMPACT STATEMENTS	(2)	EW002898	EW003798					
IMPROVE	(1)	EW003445						
*INCINE	(2)	EW001947	EW003037					
*INDEPE[illegible] STUDY	(2)	EW001250	EW001789					
INDEPENDENT STUDY	(3)	EW002967	EW003001	EW003153				
*INDEXES	(6)	EW000001	EW000002	EW000112	EW000113	EW000114	EW000115	
INDEXES (LOCATERS)	(5)	EW003377	EW003385	EW003417	EW003588	EW003663		
*INDEXING	(1)	EW003389						
INDEXING	(1)	EW003385						
*IN[illegible]NA	(2)	EW003447	EW003603					
INDIVI[illegible] INSTRUCTION	(5)	EW003754	EW003755	EW003756	EW003757	EW003758		
*INDIVIDUALIZED INSTRUCTION	(14)	EW000835	EW001022	EW001049	EW001051	EW001052	EW001053	EW001055
	EW001838	EW001839	EW001840	EW001843	EW002714	EW003072	EW003073	
INDIVIDUALIZED INSTRUCTION	(5)	EW001056	EW003310	EW003765	EW003827	EW003839		
*INDIVIDUALIZED PROGRAMS	(1)	EW003839						

*INDUSTRIAL FANS	(1)	EW001649						
INDUSTRIAL PERSONNEL	(1)	EW003414						
*INDUSTRIAL SAFETY	(78)	EW000292	EW000552	EW001342	EW001464	EW001470	EW001471	EW001478
	EW001479	EW001481	EW001482	EW001483	EW001484	EW001485	EW001486	EW001487
	EW001488	EW001489	EW001491	EW001494	EW002386	EW002785	EW002786	EW002787
	EW002788	EW002789	EW002790	EW002791	EW002796	EW002797	EW002798	EW002799
	EW002800	EW002801	EW002802	EW002803	EW002805	EW002806	EW002807	EW002808
	EW002812	EW002813	EW002814	EW002815	EW002816	EW002818	EW002819	EW002822
	EW002823	EW002826	EW002827	EW002830	EW002836	EW002837	EW002838	EW002839
	EW002840	EW002841	EW002842	EW002845	EW002847	EW002848	EW002849	EW002850
	EW002851	EW002853	EW002854	EW002855	EW002856	EW002857	EW002859	EW002861
	EW002862	EW002863	EW002867	EW002868	EW002869	EW002870	EW002871	
INDUSTRIAL SAFETY	(4)	EW000419	EW001469	EW001475	EW002817			
*INDUSTRIAL TECHNOLOGY	(70)	EW000196	EW000197	EW000198	EW000199	EW000200	EW000201	EW000202
	EW000203	EW000206	EW000207	EW000208	EW000209	EW000219	EW000220	EW000221
	EW000222	EW000223	EW000224	EW000227	EW000230	EW000231	EW000233	EW000234
	EW000238	EW000252	EW000253	EW000258	EW000259	EW000260	EW000526	EW000529
	EW000530	EW000531	EW000533	EW001158	EW001159	EW001161	EW001162	EW001165
	EW001644	EW001645	EW001646	EW001647	EW001648	EW001650	EW001651	EW001662
	EW001840	EW001868	EW001869	EW001916	EW001948	EW001949	EW001951	EW001952
	EW002004	EW002005	EW002006	EW002007	EW002011	EW002012	EW002013	EW002014
	EW002018	EW002237	EW003019	EW003172	EW003276	EW003730	EW003732	
INDUSTRIAL TECHNOLOGY	(27)	EW000211	EW000213	EW000237	EW000250	EW000251	EW000257	EW000528
	EW001166	EW001649	EW001655	EW001738	EW001838	EW001839	EW001870	EW001871
	EW001872	EW001873	EW001874	EW001875	EW001876	EW001877	EW001880	EW001881
	EW001882	EW001919	EW001955	EW002926				
*INDUSTRIAL TRAINING	(1)	EW003109						
INDUSTRIAL TRAINING	(10)	EW003108	EW003110	EW003111	EW003112	EW003113	EW003114	EW003140
	EW003141	EW003142	EW003770					
*INDUSTRIAL WASTES	(57)	EW000113	EW000118	EW000164	EW000188	EW000525	EW000558	EW000573
	EW000786	EW000832	EW000855	EW000961	EW000885	EW000993	EW000998	EW001071
	EW001085	EW001088	EW001631	EW001632	EW001660	EW001920	EW001922	EW001947
	EW001951	EW001952	EW001953	EW001954	EW002035	EW002068	EW002076	EW002084
	EW002239	EW002240	EW002241	EW002242	EW002243	EW002244	EW002245	EW002246
	EW002247	EW002248	EW002402	EW002417	EW002460	EW002461	EW002613	EW002774
	EW002889	EW002951	EW003019	EW003025	EW003042	EW003043	EW003276	EW003452
	EW003527	EW003854						
INDUSTRIAL WASTES	(16)	EW000112	EW000114	EW000115	EW000181	EW000691	EW000736	EW000784
	EW001957	EW002169	EW002356	EW002413	EW002780	EW003039	EW003040	EW003041
	EW003044							
*INDUSTRIAL WATER	(2)	EW001412	EW002068					
*INDUSTRY	(90)	EW000196	EW000197	EW000198	EW000199	EW000200	EW000201	EW000202
	EW000203	EW000204	EW000206	EW000207	EW000208	EW000209	EW000211	EW000212
	EW000235	EW000236	EW000237	EW000238	EW000239	EW000240	EW000241	EW000242
	EW000243	EW000244	EW000245	EW000246	EW000247	EW000248	EW000249	EW000250
	EW000251	EW000252	EW000253	EW000286	EW000292	EW000294	EW000295	EW000296
	EW000297	EW000298	EW000299	EW000300	EW000301	EW000316	EW000317	EW000322
	EW000323	EW000324	EW000528	EW000532	EW000993	EW001094	EW001340	EW001412
	EW001654	EW001655	EW001887	EW001888	EW001889	EW001890	EW001892	EW001894
	EW001895	EW001897	EW001953	EW001957	EW002386	EW002405	EW002418	EW002589
	EW002621	EW002624	EW003124	EW003190	EW003197	EW003215	EW003218	EW003238
	EW003251	EW003275	EW003283	EW003484	EW003527	EW003535	EW003575	EW003576
	EW003577	EW003685	EW003737					
INDUSTRY	(102)	EW000205	EW000210	EW000213	EW000214	EW000219	EW000220	EW000221
	EW000222	EW000223	EW000224	EW000230	EW000231	EW000233	EW000234	EW000257
	EW000258	EW000259	EW000267	EW000287	EW000290	EW000291	EW000304	EW000307
	EW000320	EW000321	EW000530	EW000531	EW000533	EW000851	EW001071	EW001085
	EW001158	EW001159	EW001161	EW001162	EW001165	EW001166	EW001409	EW001496
	EW001497	EW001498	EW001499	EW001500	EW001501	EW001502	EW001503	EW001566
	EW001644	EW001645	EW001646	EW001647	EW001648	EW001649	EW001650	EW001651
	EW001868	EW001869	EW001870	EW001871	EW001872	EW001873	EW001874	EW001875
	EW001877	EW001879	EW001880	EW001881	EW001882	EW001883	EW001884	EW001891
	EW001893	EW001905	EW001916	EW001922	EW001947	EW001948	EW001949	EW001951
	EW001952	EW001954	EW001955	EW002011	EW002012	EW002013	EW002014	EW002047
	EW002237	EW002804	EW003061	EW003066	EW003237	EW003245	EW003260	EW003408
	EW003494	EW003571	EW003646	EW003730	EW003749	EW003780	EW003799	
*INFORMAL LEADERSHIP	(1)	EW003439						
*INFORMATION CENTERS	(1)	EW003047						
INFORMATION CENTERS	(1)	EW003329						
*INFORMATION DISSEMINATION	(3)	EW003329	EW003439	EW003673				
INFORMATION DISSEMINATION	(2)	EW003798	EW003840					
*INFORMATION NEEDS	(1)	EW003329						
INFORMATION NETWORKS	(1)	EW003673						
*INFORMATION RETRIEVAL	(1)	EW003841						
INFORMATION RETRIEVAL	(3)	EW003369	EW003385	EW003389				
*INFORMATION SEEKING	(1)	EW003383						
INFORMATION SEEKING	(1)	EW003329						
*INFORMATION SERVICES	(2)	EW003389	EW003428					
*INFORMATION SOURCES	(5)	EW003047	EW003377	EW003587	EW003673	EW003751		
INFORMATION SOURCES	(1)	EW003329						
INFORMATION STORAGE	(2)	EW003369	EW003389					
*INFORMATION SYSTEMS	(1)	EW003369						
INFORMATION UTILIZATION	(1)	EW003329						
*INNOVATION	(1)	EW003846						
*INORGANIC CHEMISTRY	(1)	EW001026						
*INPLANT PROGRAMS	(1)	EW003571						
*INSECTICIDES	(2)	EW003022	EW003412					

INSECTICIDES	(9)	EW003039	EW003358	EW003363	EW003376	EW003384	EW003406	EW003826
	EW003897	EW003918						
INSECTS	(1)	EW003898						
*INSERVICE EDUCATION	(1)	EW003685						
INSERVICE EDUCATION	(9)	EW001242	EW001657	EW001789	EW003106	EW003226	EW003227	EW003530
	EW003556	EW003777						
*INSPECTIONS	(2)	EW000103	EW001475					
INSTALLATION	(1)	EW000031						
*INSTITUTE FOR ENVIRONMENTAL EDUCATI	(1)	EW001831						
*INSTITUTES (TRAINING PROGRAMS)	(1)	EW003348						
INSTITUTE TYPE COURSES	(1)	EW003348						
*INSTRUCTION	(6)	EW002798	EW002861	EW003094	EW003300	EW003359	EW003401	
INSTRUCTION	(8)	EW003072	EW003073	EW003286	EW003346	EW003347	EW003491	EW003675
	EW003845							
*INSTRUCTIONAL AIDS	(1)	EW001757						
*INSTRUCTIONAL DESIGN	(1)	EW002975						
INSTRUCTIONAL DESIGN	(1)	EW003827						
INSTRUCTIONAL FILMS	(9)	EW000164	EW000742	EW001097	EW002588	EW002787	EW002791	EW002796
	EW002814	EW002817						
*INSTRUCTIONAL FILMS	(24)	EW000154	EW000168	EW000181	EW000435	EW000822	EW000842	EW001000
	EW001113	EW001114	EW001115	EW001117	EW001119	EW001128	EW001207	EW001210
	EW001212	EW001703	EW001705	EW002016	EW002017	EW002047	EW002259	EW002804
	EW002873							
INSTRUCTIONAL FILMS	(73)	EW000165	EW000175	EW000191	EW000410	EW000416	EW000419	EW000558
	EW000730	EW000736	EW000737	EW000750	EW000780	EW000784	EW000794	EW000800
	EW000801	EW000804	EW000995	EW000997	EW000998	EW000999	EW001001	EW001005
	EW001093	EW001118	EW001205	EW001209	EW001221	EW001222	EW001223	EW001225
	EW001424	EW001691	EW001714	EW001721	EW001810	EW001811	EW002000	EW002001
	EW002002	EW002046	EW002184	EW002266	EW002587	EW002785	EW002786	EW002788
	EW002789	EW002790	EW002797	EW002798	EW002799	EW002800	EW002801	EW002802
	EW002803	EW002805	EW002806	EW002807	EW002808	EW002811	EW002812	EW002813
	EW002815	EW002816	EW002818	EW002919	EW003393	EW003754	EW003755	EW003756
	EW003757	EW003758						
*INSTRUCTIONAL MATERIALS	(906)	EW000008	EW000012	EW000017	EW000018	EW000019	EW000021	EW000022
	EW000023	EW000024	EW000025	EW000026	EW000027	EW000028	EW000029	EW000030
	EW000032	EW000033	EW000034	EW000037	EW000092	EW000094	EW000106	EW000111
	EW000116	EW000117	EW000119	EW000120	EW000121	EW000124	EW000126	EW000127
	EW000128	EW000139	EW000140	EW000141	EW000142	EW000154	EW000158	EW000164
	EW000165	EW000175	EW000181	EW000185	EW000191	EW000196	EW000197	EW000198
	EW000199	EW000200	EW000201	EW000202	EW000203	EW000204	EW000205	EW000206
	EW000207	EW000208	EW000209	EW000210	EW000211	EW000212	EW000213	EW000214
	EW000215	EW000216	EW000217	EW000218	EW000219	EW000220	EW000221	EW000222
	EW000223	EW000224	EW000225	EW000226	EW000227	EW000230	EW000231	EW000233
	EW000234	EW000235	EW000236	EW000237	EW000238	EW000239	EW000240	EW000241
	EW000242	EW000243	EW000244	EW000245	EW000246	EW000247	EW000248	EW000249
	EW000250	EW000251	EW000252	EW000253	EW000257	EW000258	EW000259	EW000260
	EW000261	EW000262	EW000263	EW000264	EW000265	EW000266	EW000267	EW000268
	EW000269	EW000270	EW000271	EW000272	EW000273	EW000274	EW000275	EW000276
	EW000277	EW000278	EW000279	EW000280	EW000281	EW000282	EW000283	EW000284
	EW000285	EW000286	EW000287	EW000289	EW000290	EW000291	EW000292	EW000294
	EW000295	EW000296	EW000297	EW000298	EW000299	EW000300	EW000301	EW000302
	EW000303	EW000304	EW000305	EW000306	EW000307	EW000308	EW000309	EW000312
	EW000313	EW000314	EW000315	EW000316	EW000317	EW000318	EW000319	EW000320
	EW000321	EW000322	EW000323	EW000324	EW000367	EW000387	EW000391	EW000392
	EW000393	EW000395	EW000396	EW000397	EW000398	EW000400	EW000401	EW000402
	EW000403	EW000404	EW000405	EW000406	EW000408	EW000410	EW000413	EW000416
	EW000419	EW000435	EW000442	EW000443	EW000444	EW000445	EW000446	EW000447
	EW000455	EW000466	EW000467	EW000468	EW000470	EW000471	EW000472	EW000485
	EW000486	EW000487	EW000508	EW000509	EW000510	EW000511	EW000512	EW000514
	EW000517	EW000525	EW000526	EW000528	EW000529	EW000530	EW000531	EW000532
	EW000533	EW000538	EW000539	EW000540	EW000541	EW000542	EW000543	EW000544
	EW000545	EW000546	EW000547	EW000548	EW000549	EW000550	EW000552	EW000553
	EW000554	EW000556	EW000557	EW000558	EW000561	EW000563	EW000573	EW000574
	EW000575	EW000577	EW000611	EW000618	EW000632	EW000692	EW000730	EW000736
	EW000737	EW000750	EW000771	EW000786	EW000794	EW000801	EW000822	EW000834
	EW000835	EW000836	EW000837	EW000840	EW000841	EW000842	EW000851	EW000852
	EW000854	EW000857	EW000867	EW000870	EW000871	EW000872	EW000888	EW000889
	EW000890	EW000891	EW000899	EW000900	EW000901	EW000902	EW000903	EW000904
	EW000922	EW000957	EW000964	EW000965	EW000967	EW000968	EW000969	EW000970
	EW000971	EW000973	EW000974	EW000975	EW000980	EW001005	EW001012	EW001020
	EW001021	EW001022	EW001023	EW001024	EW001025	EW001026	EW001027	EW001032
	EW001033	EW001034	EW001039	EW001040	EW001041	EW001043	EW001044	EW001045
	EW001049	EW001051	EW001052	EW001053	EW001055	EW001056	EW001059	EW001060
	EW001061	EW001062	EW001063	EW001064	EW001065	EW001083	EW001085	EW001087
	EW001093	EW001097	EW001111	EW001112	EW001113	EW001114	EW001115	EW001117
	EW001118	EW001119	EW001153	EW001155	EW001156	EW001157	EW001158	EW001159
	EW001161	EW001162	EW001163	EW001164	EW001165	EW001166	EW001205	EW001209
	EW001210	EW001212	EW001221	EW001222	EW001223	EW001224	EW001225	EW001229
	EW001242	EW001247	EW001248	EW001249	EW001250	EW001258	EW001260	EW001321
	EW001322	EW001342	EW001409	EW001412	EW001419	EW001422	EW001424	EW001448
	EW001464	EW001467	EW001468	EW001469	EW001470	EW001471	EW001475	EW001478
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	EW001646	EW001647	EW001648	EW001650	EW001651	EW001652	EW001653	EW001654
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	EW001714	EW001721	EW001737	EW001751	EW001758	EW001759	EW001762	EW001765
	EW001789	EW001806	EW001810	EW001811	EW001827	EW001828	EW001829	EW001830
	EW001833	EW001834	EW001838	EW001839	EW001840	EW001843	EW001867	EW001868
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	EW001877	EW001878	EW001879	EW001880	EW001881	EW001882	EW001883	EW001884
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	EW001895	EW001896	EW001897	EW001905	EW001961	EW001962	EW001963	EW001964
	EW001966	EW001967	EW001968	EW001969	EW001970	EW001971	EW001973	EW002000
	EW002001	EW002004	EW002005	EW002006	EW002007	EW002011	EW002013	EW002015
	EW002016	EW002017	EW002018	EW002021	EW002022	EW002023	EW002024	EW002035
	EW002037	EW002039	EW002040	EW002041	EW002042	EW002043	EW002044	EW002046
	EW002056	EW002058	EW002068	EW002069	EW002074	EW002088	EW002140	EW002169
	EW002239	EW002240	EW002254	EW002266	EW002375	EW002376	EW002377	EW002378
	EW002379	EW002380	EW002381	EW002382	EW002386	EW002388	EW002390	EW002404
	EW002413	EW002418	EW002419	EW002421	EW002436	EW002447	EW002453	EW002461
	EW002510	EW002564	EW002587	EW002588	EW002589	EW002591	EW002592	EW002615
	EW002619	EW002620	EW002621	EW002622	EW002624	EW002660	EW002773	EW002775
	EW002776	EW002777	EW002778	EW002780	EW002866	EW002873	EW002880	EW002884
	EW002887	EW002888	EW002889	EW002890	EW002891	EW002892	EW002893	EW002894
	EW002896	EW002897	EW002898	EW002900	EW002909	EW002916	EW002917	EW002918
	EW002919	EW002920	EW002921	EW002931	EW002933	EW002939	EW002940	EW002956
	EW002959	EW002960	EW002961	EW002962	EW002966	EW002967	EW002976	EW002977

	EW002978	EW002979	EW002980	EW002981	EW002982	EW002983	EW002984	EW002985
	EW002986	EW002987	EW002988	EW002989	EW002990	EW002991	EW002992	EW002993
	EW002994	EW002995	EW002996	EW002997	EW002998	EW003001	EW003002	EW003005
	EW003006	EW003008	EW003009	EW003010	EW003011	EW003012	EW003013	EW003024
	EW003051	EW003059	EW003061	EW003062	EW003063	EW003064	EW003065	EW003069
	EW003074	EW003075	EW003076	EW003077	EW003078	EW003079	EW003080	EW003081
	EW003082	EW003083	EW003084	EW003085	EW003086	EW003087	EW003088	EW003089
	EW003090	EW003091	EW003092	EW003093	EW003094	EW003095	EW003096	EW003097
	EW003098	EW003099	EW003100	EW003101	EW003118	EW003119	EW003120	EW003121
	EW003122	EW003123	EW003131	EW003137	EW003140	EW003141	EW003142	EW003153
	EW003157	EW003158	EW003159	EW003162	EW003163	EW003164	EW003166	EW003170
	EW003173	EW003174	EW003175	EW003176	EW003177	EW003178	EW003179	EW003182
	EW003186	EW003187	EW003188	EW003195	EW003199	EW003203	EW003216	EW003218
	EW003221	EW003222	EW003223	EW003224	EW003226	EW003227	EW003230	EW003231
	EW003232	EW003233	EW003238	EW003240	EW003241	EW003242	EW003243	EW003244
	EW003247	EW003248	EW003249	EW003250	EW003254	EW003255	EW003256	EW003258
	EW003259	EW003260	EW003261	EW003262	EW003265	EW003266	EW003267	EW003268
	EW003269	EW003272	EW003274	EW003276	EW003277	EW003285	EW003287	EW003290
	EW003296	EW003297	EW003303	EW003304	EW003305	EW003306	EW003307	EW003311
	EW003325	EW003339	EW003341	EW003342	EW003347	EW003350	EW003354	EW003359
	EW003360	EW003361	EW003362	EW003376	EW003379	EW003397	EW003421	EW003430
	EW003431	EW003435	EW003453	EW003454	EW003460	EW003464	EW003471	EW003472
	EW003476	EW003477	EW003480	EW003481	EW003482	EW003483	EW003484	EW003489
	EW003490	EW003491	EW003492	EW003493	EW003497	EW003498	EW003499	EW003500
	EW003501	EW003502	EW003504	EW003505	EW003506	EW003507	EW003508	EW003509
	EW003510	EW003511	EW003512	EW003513	EW003514	EW003515	EW003527	EW003528
	EW003529	EW003530	EW003532	EW003536	EW003537	EW003538	EW003539	EW003540
	EW003541	EW003545	EW003548	EW003553	EW003554	EW003556	EW003557	EW003559
	EW003563	EW003569	EW003569	EW003570	EW003571	EW003575	EW003577	EW003578
	EW003579	EW003584	EW003586	EW003658	EW003674	EW003676	EW003690	EW003691
	EW003692	EW003696	EW003701	EW003703	EW003706	EW003707	EW003709	EW003712
	EW003713	EW003729	EW003730	EW003734	EW003736	EW003738	EW003741	EW003742
	EW003743	EW003744	EW003745	EW003748	EW003749	EW003766	EW003767	EW003771
	EW003781	EW003786	EW003788	EW003789	EW003790	EW003791	EW003792	EW003793
	EW003794	EW003795	EW003797	EW003798	EW003810	EW003821	EW003822	EW003823
	EW003824	EW003826	EW003831	EW003832	EW003833	EW003834	EW003836	EW003837
	EW003838	EW003861	EW003865	EW003889	EW003890	EW003895	EW003897	EW003898
	EW003900	EW003921	EW003922					
INSTRUCTIONAL MATERIALS	(159)	EW000001	EW000002	EW000003	EW000004	EW000006	EW000020	EW000031
	EW000110	EW000135	EW000188	EW000189	EW000192	EW000194	EW000389	EW000394
	EW000488	EW000690	EW000691	EW000742	EW000800	EW000804	EW000812	EW000829
	EW000831	EW000832	EW000855	EW000858	EW000861	EW000885	EW000962	EW000991
	EW000993	EW001001	EW001002	EW001035	EW001036	EW001071	EW001085	EW001088
	EW001092	EW001207	EW001244	EW001340	EW001406	EW001411	EW001412	EW001496
	EW001497	EW001498	EW001499	EW001500	EW001501	EW001502	EW001503	EW001649
	EW001738	EW001832	EW001889	EW001893	EW001916	EW001917	EW001919	EW001920
	EW001921	EW001923	EW001925	EW001947	EW001948	EW001949	EW001951	EW001952
	EW001953	EW001954	EW001955	EW001957	EW002009	EW002012	EW002014	EW002057
	EW002237	EW002241	EW002242	EW002243	EW002244	EW002245	EW002246	EW002247
	EW002248	EW002389	EW002402	EW002417	EW002772	EW002774	EW002804	EW002822
	EW002823	EW002826	EW002827	EW002830	EW002836	EW002837	EW002838	EW002839
	EW002840	EW002841	EW002842	EW002845	EW002847	EW002848	EW002849	EW002850
	EW002851	EW002853	EW002854	EW002855	EW002856	EW002857	EW002859	EW002861
	EW002862	EW002863	EW002867	EW002868	EW002869	EW002870	EW002871	EW003298
	EW003302	EW003310	EW003322	EW003336	EW003346	EW003351	EW003358	EW003364
	EW003365	EW003371	EW003374	EW003384	EW003386	EW003395	EW003412	EW003443
	EW003456	EW003465	EW003533	EW003542	EW003717	EW003718	EW003753	EW003763
	EW003765	EW003768	EW003769	EW003775	EW003776	EW003847	EW003887	
INSTRUCTIONAL MEDIA	(1)	EW003395						
INSTRUCTIONAL TECHNOLOGY	(1)	EW003765						
*INSTRUMENTATION	(34)	EW000100	EW000226	EW000231	EW000233	EW000266	EW000269	EW000270
	EW000283	EW000284	EW000404	EW000784	EW000889	EW001035	EW001036	EW001406
	EW001448	EW001651	EW001738	EW001877	EW001882	EW001886	EW001888	EW001889
	EW001890	EW001891	EW002006	EW002009	EW002014	EW002018	EW002021	EW002390
	EW002419	EW003387	EW003697					
INSTRUMENTATION	(3)	EW000538	EW003464	EW003733				
*INSULATION	(3)	EW001653	EW001870	EW001871				
INSULATION	(1)	EW002775						
INTEGRATED CURRICULUM	(1)	EW003771						
INTERAGENCY COOPERATION	(1)	EW003329						
*INTERDISCIPLINARY APPROACH	(3)	EW003354	EW003356	EW003365				
INTERDISCIPLINARY APPROACH	(6)	EW003329	EW003339	EW003341	EW003361	EW003364	EW003718	
INTEREST	(1)	EW003468						
*INTERMEDIATE GRADES	(1)	EW003354						
INTERMEDIATE GRADES	(1)	EW003353						
*INTERNATIONAL BIOLOGICAL PROGRAM	(1)	EW003587						
INTERNATIONAL COOPERATION	(1)	EW003380						
INTERNATIONAL EDUCATION	(1)	EW003316						
INTERNATIONAL HYDROLOGICAL DECADE	(2)	EW003349	EW003352					
*INTERNATIONAL LAW	(1)	EW003573						
*INTERNATIONAL ORGANIZATIONS	(1)	EW003673						
INTERNATIONAL ORGANIZATIONS	(1)	EW003725						
*INTERNATIONAL PROGRAMS	(1)	EW003830						
INTERNATIONAL PROGRAMS	(3)	EW003295	EW003349	EW003673				
INTERNATIONAL STUDIES	(1)	EW003193						
INTERVIEWING	(1)	EW001519						
*INTERVIEWS	(2)	EW001714	EW002588					
INVERTEBRATES	(1)	EW003898						
*INVESTIGATION	(1)	EW000397						
INVESTIGATIONS	(3)	EW001832	EW003309	EW003386				
*ION EXCHANGE	(4)	EW001919	EW002990	EW003038	EW003817			
ION EXCHANGE	(4)	EW001925	EW002889	EW002989	EW002991			
*IOWA	(2)	EW002912	EW003604					
IOWA	(3)	EW003124	EW003125	EW003422				

*IRON	(1)	EW003090						
IRON	(1)	EW000059						
*IRON PIPES	(10)	EW000063	EW000064	EW000066	EW000067	EW000069	EW000070	EW000071
	EW000091	EW000092	EW000093					
IRON PIPES	(2)	EW000065	EW000068					
*IRRIGATION	(3)	EW000192	EW003533	EW003689				
IRRIGATION	(2)	EW002378	EW003861					
*IRRIGATION SYSTEMS	(1)	EW003456						
*ISRAEL	(1)	EW003171						
JACKSONVILLE	(1)	EW003452						
*JAPAN	(1)	EW002040						
*JAR TEST	(1)	EW003094						
*JET PUMPS	(3)	EW001875	EW001876	EW001883				
*JOB ANALYSIS	(10)	EW000017	EW000018	EW000019	EW000020	EW000021	EW000022	EW001128
	EW001229	EW002588	EW003767					
JOB ANALYSIS	(1)	EW003344						
JOB APPLICANTS	(3)	EW003382	EW003411	EW003759				
*JOB INSTRUCTION	(1)	EW001207						
JOB INSTRUCTION	(1)	EW001205						
*JOB INTERVIEWS	(1)	EW002587						
JOB SATISFACTION	(1)	EW003797						
*JOB SKILLS	(27)	EW000470	EW000471	EW000967	EW000968	EW000969	EW000970	EW000971
	EW003002	EW003175	EW003176	EW003177	EW003178	EW003179	EW003186	EW003187
	EW003188	EW003293	EW003294	EW003344	EW003382	EW003411	EW003759	EW003772
	EW003773	EW003776	EW003778	EW003797				
JOB SKILLS	(31)	EW000124	EW000211	EW000472	EW000965	EW002714	EW002967	EW003051
	EW003124	EW003143	EW003144	EW003145	EW003146	EW003147	EW003148	EW003149
	EW003150	EW003155	EW003164	EW003292	EW003489	EW003501	EW003532	EW003540
	EW003541	EW003767	EW003771	EW003777	EW003810	EW003821	EW003822	EW003823
*JOB TRAINING	(18)	EW001382	EW003072	EW003073	EW003106	EW003108	EW003110	EW003111
	EW003112	EW003113	EW003114	EW003140	EW003141	EW003142	EW003414	EW003761
	EW003763	EW003766	EW003770					
JOB TRAINING	(7)	EW001112	EW002922	EW003109	EW003294	EW003768	EW003777	EW003845
*JOURNAL ARTICLES	(2)	EW000001	EW000002					
JUNIOR COLLEGES	(5)	EW003291	EW003292	EW003293	EW003294	EW003668		
*JUNIOR HIGH SCHOOLS	(2)	EW003465	EW003718					
JUNIOR HIGH SCHOOLS	(1)	EW003326						
*KANSAS	(1)	EW003605						
*KENTUCKY	(1)	EW003606						
KENTUCKY	(2)	EW003358	EW003460					
*KEYS (BIOLOGY)	(1)	EW003220						
KINETICS	(1)	EW003757						
*KNOTS	(1)	EW000236						
KNOWLEDGE LEVEL	(1)	EW003847						
*LABORATORIES	(1)	EW003330						
*LABORATORY EQUIPMENT	(8)	EW000285	EW000404	EW001342	EW001831	EW001878	EW001879	EW002920
	EW003272							
LABORATORY EQUIPMENT	(6)	EW001060	EW002917	EW002921	EW003471	EW003502	EW003748	
*LABORATORY GLASSWARE	(1)	EW001342						
*LABORATORY MANUALS	(7)	EW000514	EW001244	EW001247	EW002660	EW003216	EW003226	EW003227
LABORATORY MANUALS	(1)	EW003421						
*LABORATORY METHODS	(4)	EW003061	EW003186	EW003187	EW003262			
*LABORATORY PROCEDURES	(46)	EW000185	EW000413	EW000455	EW000466	EW000467	EW000539	EW000540
	EW000541	EW000542	EW000544	EW000545	EW000546	EW000547	EW000556	EW000557
	EW000771	EW000852	EW000901	EW000902	EW001762	EW001765	EW002934	EW002939
	EW003000	EW003010	EW003051	EW003063	EW003119	EW003120	EW003121	EW003122
	EW003123	EW003162	EW003163	EW003258	EW003259	EW003264	EW003272	EW003271
	EW003330	EW003480	EW003748	EW003789	EW003790	EW003791	EW003832	
LABORATORY PROCEDURES	(12)	EW002959	EW003233	EW003237	EW003275	EW003482	EW003483	EW003492
	EW003527	EW003550	EW003733	EW003739	EW003768			
*LABORATORY SAFETY	(2)	EW001510	EW002817					
LABORATORY TECHNICIANS	(1)	EW000404						
*LABORATORY TECHNIQUES	(71)	EW000004	EW000032	EW000142	EW000289	EW000291	EW000538	EW000833
	EW000889	EW001012	EW001059	EW001060	EW001061	EW001062	EW001063	EW001448
	EW001757	EW001758	EW001759	EW001833	EW001878	EW001879	EW001885	EW001919
	EW001924	EW001950	EW001970	EW001973	EW002375	EW002380	EW002589	EW002916
	EW002918	EW002920	EW002921	EW002959	EW002967	EW003069	EW003083	EW003084
	EW003085	EW003086	EW003087	EW003088	EW003089	EW003090	EW003091	EW003092
	EW003093	EW003094	EW003095	EW003096	EW003097	EW003098	EW003099	EW003118
	EW003119	EW003121	EW003153	EW003164	EW003236	EW003240	EW003266	EW003407
	EW003502	EW003548	EW003556	EW003729	EW003734	EW003747	EW003803	EW003831
LABORATORY TECHNIQUES	(17)	EW000290	EW000443	EW000832	EW001039	EW001510	EW001834	EW001894
	EW002040	EW002917	EW002952	EW003177	EW003265	EW003471	EW003549	EW003551
	EW003561	EW003898						
LABORATORY TECHNOLOGY	(3)	EW003291	EW003292	EW003293				
LABORATORY TESTING	(1)	EW003726						

.ABORATORY TESTS	(1)	EW003206						
.ABORATORY TRAINING	(3)	EW003175	EW003176	EW003178				
.ABOR FORCE	(2)	EW002971	EW002972					
.ABOR SUPPLY	(1)	EW003429						
.ABOR SUPPLY	(1)	EW002975						
.ADDERS	(1)	EW002836						
.AGOONS	(3)	EW003056	EW003169	EW003710				
.AGOONS	(1)	EW000830						
.AKE ERIE	(1)	EW002042						
.AKES	(8)	EW000154	EW000181	EW000400	EW000402	EW003004	EW003268	EW003466
	EW003537							
.AKES	(3)	EW000403	EW003269	EW003542				
.AKE SUPERIOR	(1)	EW003466						
.AND ACQUISITION	(1)	EW003846						
.AND APPLICATION	(32)	EW001438	EW001921	EW002022	EW002909	EW002935	EW002941	EW002969
	EW002973	EW003018	EW003173	EW003192	EW003261	EW003263	EW003477	EW003503
	EW003516	EW003517	EW003518	EW003519	EW003520	EW003521	EW003522	EW003523
	EW003524	EW003525	EW003568	EW003569	EW003570	EW003698	EW003700	EW003707
	EW003731							
.AND APPLICATION	(18)	EW000117	EW003214	EW003504	EW003505	EW003506	EW003507	EW003508
	EW003509	EW003510	EW003511	EW003512	EW003513	EW003514	EW003515	EW003528
	EW003577	EW003581	EW003708					
.AND APPLICATION SYSTEMS	(2)	EW003516	EW003528					
.AND DISPOSAL	(1)	EW001260						
.ANDFILLS	(2)	EW001607	EW003054					
LANDFILLS	(3)	EW002022	EW003037	EW003854				
LAND MANAGEMENT	(2)	EW003130	EW003131					
LANDSAT	(1)	EW003217						
LAND TREATMENT	(2)	EW002935	EW003547					
LAND USE	(86)	EW001083	EW001425	EW001438	EW002047	EW002076	EW002356	EW002909
	EW002910	EW002935	EW002941	EW002942	EW002969	EW002973	EW003004	EW003035
	EW003058	EW003126	EW003129	EW003130	EW003131	EW003169	EW003191	EW003192
	EW003196	EW003209	EW003210	EW003211	EW003217	EW003261	EW003305	EW003312
	EW003372	EW003398	EW003418	EW003460	EW003477	EW003503	EW003504	EW003505
	EW003506	EW003507	EW003508	EW003509	EW003510	EW003511	EW003512	EW003513
	EW003514	EW003515	EW003516	EW003517	EW003518	EW003519	EW003520	EW003521
	EW003522	EW003523	EW003524	EW003525	EW003528	EW003547	EW003567	EW003568
	EW003579	EW003677	EW003690	EW003708	EW003710	EW003712	EW003728	EW003731
	EW003750	EW003811	EW003813	EW003815	EW003816	EW003846	EW003847	EW003858
	EW003860							
LAND USE	(64)	EW000191	EW000549	EW001005	EW002949	EW002951	EW002952	EW002968
	EW002999	EW003003	EW003018	EW003056	EW003060	EW003064	EW003102	EW003107
	EW003127	EW003134	EW003165	EW003190	EW003195	EW003200	EW003212	EW003213
	EW003223	EW003259	EW003263	EW003291	EW003292	EW003293	EW003294	EW003309
	EW003318	EW003361	EW003397	EW003404	EW003417	EW003444	EW003461	EW003476
	EW003493	EW003500	EW003540	EW003541	EW003569	EW003570	EW003581	EW003582
	EW003660	EW003662	EW003665	EW003674	EW003675	EW003676	EW003716	EW003725
	EW003727	EW003738	EW003744	EW003745	EW003785	EW003812	EW003814	EW003835
	EW003844							
LANGUAGE ARTS	(3)	EW001053	EW001055	EW003341				
LAWS	(16)	EW000025	EW000118	EW000396	EW001092	EW001661	EW002024	EW002254
	EW002619	EW002621	EW003309	EW003413	EW003438	EW003505	EW003520	EW003715
	EW003725							
LAWS	(17)	EW000188	EW001000	EW001917	EW001955	EW001957	EW001963	EW002035
	EW002042	EW002386	EW002390	EW002421	EW002617	EW003079	EW003356	EW003420
	EW003744	EW003854						
LAWYERS	(1)	EW003309						
LEACHING	(2)	EW002022	EW002952					
LEACHING	(1)	EW003054						
LEAD	(1)	EW003559						
LEAD	(1)	EW003043						
LEADERSHIP	(10)	EW000281	EW001212	EW001221	EW001222	EW001223	EW001224	EW001225
	EW001867	EW002000	EW002001					
LEADERSHIP	(1)	EW001519						
LEADERSHIP TRAINING	(1)	EW001425						
LEARNING ACTIVITIES	(8)	EW001832	EW003216	EW003336	EW003359	EW003374	EW003454	EW003458
	EW003776							
LEARNING ACTIVITIES	(15)	EW003299	EW003326	EW003339	EW003365	EW003371	EW003386	EW003431
	EW003453	EW003460	EW003465	EW003469	EW003718	EW003760	EW003768	EW003778
LEARNING MODULES	(26)	EW001789	EW002966	EW003153	EW003292	EW003504	EW003505	EW003506
	EW003507	EW003508	EW003509	EW003510	EW003511	EW003512	EW003513	EW003514
	EW003515	EW003516	EW003517	EW003518	EW003519	EW003520	EW003521	EW003522
	EW003523	EW003524	EW003525					
LEARNING MODULES	(3)	EW001250	EW003001	EW003294				
LEGAL PROBLEMS	(3)	EW003420	EW003505	EW003725				
LEGAL PROBLEMS	(2)	EW003309	EW003847					
LEGAL RESPONSIBILITY	(1)	EW003723						
LEGISLATION	(18)	EW003102	EW003212	EW003213	EW003261	EW003309	EW003335	EW003406
	EW003438	EW003535	EW003558	EW003576	EW003581	EW003695	EW003725	EW003727
	EW003780	EW003782	EW003847					
LEGISLATION	(19)	EW000971	EW001092	EW003015	EW003027	EW003124	EW003189	EW003190

	EW003209	EW003234	EW003267	EW003484	EW003539	EW003546	EW003571	EW00357
	EW003582	EW003798	EW003800	EW003801				
LEGISLATORS	(1)	EW003846						
*LESSON PLANS	(1)	EW003491						
LESSON PLANS	(3)	EW003342	EW003460	EW003465				
*LEVEL MEASUREMENT	(2)	EW000230	EW000231					
LIBRARY REFERENCE SERVICES	(1)	EW002906						
*LIFTING	(3)	EW002813	EW002918	EW002945				
*LIFT STATIONS	(1)	EW002378						
LIGHTING	(1)	EW003766						
*LIME	(3)	EW000043	EW000750	EW000867				
*LIMNOLOGY	(5)	EW000154	EW003008	EW003268	EW003269	EW003537		
LIMNOLOGY	(3)	EW002044	EW002948	EW003285				
*LIQUID CHLORINE	(1)	EW000045						
*LIQUID SODIUM SILICATE	(1)	EW000050						
LITERATURE GUIDES	(1)	EW003369						
*LITERATURE REVIEWS	(2)	EW003035	EW003369					
LITERATURE REVIEWS	(1)	EW003424						
*LIVESTOCK	(1)	EW003052						
LIVESTOCK	(2)	EW003127	EW003134					
LIVING STANDARDS	(1)	EW003257						
LOADING	(1)	EW001494						
*LOSS REPORTS	(1)	EW001503						
*LOUISIANA	(1)	EW003607						
LOUISIANA HIGH SCHOOL CONSERVATION	(1)	EW003446						
LOW ABILITY STUDENTS	(1)	EW003347						
*LUBRICANTS	(3)	EW000531	EW000922	EW003194				
LUBRICANTS	(3)	EW002930	EW003228	EW003229				
*LUBRICATION	(2)	EW000528	EW000531					
MACHINE GUARDING	(1)	EW002802						
*MACHINE REPAIRMEN	(1)	EW003763						
MACHINE REPAIRMEN	(1)	EW003767						
MACHINERY INDUSTRY	(1)	EW000261						
*MACHINE TOOLS	(2)	EW000250	EW000251					
*MACHINISTS	(2)	EW000526	EW000611					
*MAGNESIUM CARBONATE	(1)	EW003563						
*MAINE	(1)	EW003608						
*MAINTENANCE	(62)	EW000026	EW000028	EW000029	EW000037	EW000103	EW000104	EW00011
	EW000121	EW000127	EW000261	EW000271	EW000272	EW000280	EW000287	EW00029
	EW000302	EW000303	EW000322	EW000455	EW000528	EW000529	EW000533	EW00096
	EW000968	EW000969	EW000970	EW001162	EW001164	EW001165	EW001166	EW00134
	EW001469	EW001491	EW001649	EW001652	EW001653	EW001655	EW001838	EW00183
	EW001840	EW001843	EW001869	EW001871	EW001872	EW001876	EW001883	EW00188
	EW001888	EW001889	EW001890	EW001892	EW001893	EW001895	EW001896	EW00201
	EW002035	EW002419	EW002811	EW002812	EW003075	EW003473	EW003781	
MAINTENANCE	(40)	EW000116	EW000140	EW000141	EW000239	EW000240	EW000242	EW00024
	EW000244	EW000245	EW000246	EW000247	EW000248	EW000253	EW000257	EW00025
	EW000259	EW000268	EW000290	EW000323	EW000510	EW000530	EW000532	EW00061
	EW001112	EW001387	EW001494	EW001644	EW001645	EW001646	EW001697	EW00187
	EW001873	EW001874	EW001875	EW001880	EW001887	EW002800	EW003131	EW00346
	EW003845							
*MAINTENANCE (PREVENTIVE)	(2)	EW000196	EW000197					
*MAINTENANCE (WASTEWATER)	(1)	EW001387						
MAMMALS	(1)	EW003052						
*MANAGEMENT	(91)	EW000025	EW000110	EW000124	EW000187	EW000188	EW000194	EW00028
	EW000525	EW000558	EW000858	EW000870	EW000891	EW001092	EW001128	EW00120
	EW001207	EW001210	EW001212	EW001221	EW001222	EW001223	EW001224	EW00122
	EW001229	EW001475	EW001657	EW001659	EW001714	EW001721	EW001810	EW00182
	EW001867	EW002000	EW002001	EW002039	EW002074	EW002077	EW002436	EW00258
	EW002588	EW002785	EW002786	EW002787	EW002788	EW002789	EW002790	EW00279
	EW002796	EW002797	EW002798	EW002799	EW002800	EW002801	EW002802	EW00280
	EW002805	EW002806	EW002807	EW002808	EW002884	EW002890	EW002891	EW00300
	EW003052	EW003078	EW003079	EW003081	EW003082	EW003132	EW003199	EW00320
	EW003244	EW003271	EW003362	EW003409	EW003415	EW003468	EW003473	EW00348
	EW003501	EW003524	EW003537	EW003573	EW003578	EW003582	EW003738	EW00374
	EW003780	EW003797	EW003800	EW003816				
MANAGEMENT	(26)	EW000038	EW000165	EW000871	EW000872	EW002254	EW002453	EW00251
	EW002804	EW002826	EW002863	EW002925	EW003029	EW003060	EW003080	EW00310
	EW003175	EW003176	EW003177	EW003178	EW003202	EW003203	EW003206	EW00324
	EW003253	EW003478	EW003784					
*MANAGEMENT EDUCATION	(1)	EW003020						
MANAGEMENT EDUCATION	(1)	EW003106						
MANAGEMENT GAMES	(1)	EW003470						
*MANAGEMENT SYSTEMS	(7)	EW001387	EW003056	EW003131	EW003139	EW003169	EW003213	EW00358

MANAGEMENT SYSTEMS	(5)	EW002999	EW003129	EW003133	EW003138	EW003402		
MANGANESE	(2)	EW000059	EW003095					
MANGANESE	(1)	EW003043						
MANOMETERS	(1)	EW000217						
MANPOWER DEVELOPMENT	(4)	EW002970	EW002971	EW003457	EW003848			
MANPOWER DEVELOPMENT	(8)	EW000470	EW000471	EW002972	EW003228	EW003229	EW003286	EW003287
	EW003667							
MANPOWER NEEDS	(78)	EW002970	EW002971	EW002972	EW002975	EW003294	EW003391	EW003429
	EW003442	EW003589	EW003590	EW003591	EW003592	EW003593	EW003594	EW003595
	EW003596	EW003597	EW003598	EW003599	EW003600	EW003601	EW003602	EW003603
	EW003604	EW003605	EW003606	EW003607	EW003608	EW003609	EW003610	EW003611
	EW003612	EW003613	EW003614	EW003615	EW003616	EW003617	EW003618	EW003619
	EW003620	EW003621	EW003622	EW003623	EW003624	EW003625	EW003626	EW003627
	EW003628	EW003629	EW003630	EW003631	EW003632	EW003633	EW003634	EW003635
	EW003636	EW003637	EW003638	EW003639	EW003640	EW003641	EW003642	EW003643
	EW003644	EW003645	EW003646	EW003647	EW003648	EW003649	EW003650	EW003651
	EW003652	EW003653	EW003654	EW003655	EW003656	EW003657	EW003848	
MANPOWER NEEDS	(4)	EW003124	EW003295	EW003447	EW003457			
MANPOWER UTILIZATION	(1)	EW003381						
MANPOWER UTILIZATION	(2)	EW003442	EW003848					
MANUAL LABOR	(1)	EW002857						
MANUALS	(94)	EW000008	EW000024	EW000026	EW000027	EW000029	EW000037	EW000038
	EW000139	EW000140	EW000141	EW000200	EW000201	EW000202	EW000203	EW000204
	EW000205	EW000206	EW000207	EW000208	EW000209	EW000210	EW000211	EW000213
	EW000214	EW000215	EW000216	EW000217	EW000218	EW000219	EW000220	EW000221
	EW000222	EW000223	EW000224	EW000227	EW000234	EW000235	EW000236	EW000237
	EW000238	EW000273	EW000279	EW000444	EW000488	EW000508	EW000509	EW000510
	EW000511	EW000512	EW000517	EW000611	EW000618	EW000837	EW000861	EW001111
	EW001112	EW001112	EW001242	EW001250	EW001260	EW001340	EW001396	EW001661
	EW001737	EW001759	EW001806	EW001874	EW001875	EW001881	EW002005	EW002237
	EW002417	EW002421	EW002660	EW002772	EW002822	EW002827	EW003106	EW003115
	EW003116	EW003163	EW003252	EW003271	EW003473	EW003492	EW003527	EW003528
	EW003529	EW003726	EW003761	EW003763	EW003766	EW003887	EW003893	
MANUALS	(46)	EW000196	EW000197	EW000198	EW000199	EW000226	EW000230	EW000231
	EW000261	EW000262	EW000265	EW000266	EW000274	EW000276	EW000277	EW000278
	EW000280	EW000282	EW000283	EW000284	EW000286	EW000287	EW000786	EW000854
	EW000870	EW000871	EW000872	EW001632	EW001868	EW001869	EW001870	EW001872
	EW001873	EW001880	EW001882	EW002007	EW002774	EW003162	EW003324	EW003328
	EW003407	EW003421	EW003489	EW003530	EW003743	EW003891	EW003892	
MANUFACTURING	(2)	EW001456	EW003245					
MANUFACTURING	(3)	EW003172	EW003571	EW003732				
MANUFACTURING INDUSTRY	(1)	EW002402						
MANUFACTURING INDUSTRY	(1)	EW002621						
MAPS	(1)	EW003312						
MAP SKILLS	(1)	EW003728						
MARICULTURE	(1)	EW003219						
MARINE	(1)	EW002934						
MARINE BIOLOGY	(10)	EW001424	EW002379	EW002930	EW003024	EW003030	EW003220	EW003296
	EW003360	EW003824	EW003903					
MARINE BIOLOGY	(11)	EW002044	EW003033	EW003151	EW003219	EW003289	EW003290	EW003335
	EW003380	EW003397	EW003433	EW003837				
MARINE CHEMISTRY	(1)	EW002379						
MARINE ENGINEERING	(1)	EW003839						
MARINE ENVIRONMENT	(2)	EW002355	EW002613					
MARINE ENVIRONMENT	(1)	EW002037						
MARINE POLLUTION	(6)	EW000175	EW001097	EW002037	EW002056	EW002390	EW002461	
MARINE POLLUTION	(1)	EW002413						
MARINE RESOURCES AND ENGINEERING DE	(1)	EW003028						
MARYLAND	(1)	EW003609						
MARYLAND (FREDERICK COUNTY)	(1)	EW003310						
MASSACHUSETTS	(2)	EW003423	EW003610					
MASS SPECTROSCOPY	(1)	EW001973						
MASS TRANSIT	(1)	EW003785						
MASTER PLANS	(1)	EW003409						
MASTER PLANS	(1)	EW003418						
MASTERS THESES	(1)	EW003840						
MATERIAL DEVELOPMENT	(1)	EW003379						
MATERIAL DEVELOPMENT	(1)	EW003294						
MATERIALS HANDLING	(2)	EW002814	EW002862					
MATERIALS HANDLING	(2)	EW002799	EW002806					
MATHEMATICAL APPLICATIONS	(6)	EW000442	EW000900	EW002043	EW002714	EW003006	EW003480	
MATHEMATICAL CONCEPTS	(1)	EW003308						
MATHEMATICAL MODELS	(6)	EW000991	EW003200	EW003202	EW003242	EW003244	EW003434	
MATHEMATICAL MODELS	(4)	EW000889	EW001448	EW002057	EW003861			
MATHEMATICS	(22)	EW000275	EW000442	EW000509	EW000550	EW000899	EW001033	EW001034

	EW001049	EW001051	EW001052	EW001056	EW002043	EW003005	EW003006	EW003007
	EW003051	EW003187	EW003231	EW003243	EW003553	EW003793	EW003794	
MATHEMATICS	(12)	EW000508	EW000510	EW000512	EW000900	EW003155	EW003179	EW003186
	EW003224	EW003232	EW003254	EW003743	EW003787			
*MATHEMATICS EDUCATION	(11)	EW000239	EW000240	EW000241	EW000242	EW000243	EW000244	EW000245
	EW000246	EW000247	EW000248	EW001789				
MATHEMATICS EDUCATION	(5)	EW000899	EW003005	EW003354	EW003793	EW003794		
*MEASUREMENT	(25)	EW000120	EW000230	EW000231	EW000233	EW000249	EW000250	EW000251
	EW000262	EW000269	EW000282	EW000283	EW000284	EW000618	EW001063	EW001877
	EW001882	EW001885	EW001886	EW001891	EW002009	EW002778	EW003321	EW003733
	EW003740	EW003746						
MEASUREMENT	(9)	EW000270	EW001412	EW001757	EW001758	EW002011	EW002012	EW002013
	EW002014	EW003464						
*MEASUREMENT INSTRUMENTS	(2)	EW003371	EW003387					
MEASUREMENT INSTRUMENTS	(3)	EW003298	EW003405	EW003778				
*MEASUREMENT TECHNIQUES	(14)	EW002948	EW003014	EW003017	EW003074	EW003171	EW003178	EW003233
	EW003328	EW003383	EW003387	EW003729	EW003739	EW003799	EW003807	
MEASUREMENT TECHNIQUES	(8)	EW000846	EW002021	EW003065	EW003175	EW003176	EW003177	EW003259
	EW003405							
*MECHANICAL DRAWING	(1)	EW001566						
*MECHANICAL EQUIPMENT	(28)	EW000234	EW000235	EW000252	EW000253	EW000258	EW000259	EW000260
	EW000261	EW000268	EW000528	EW000529	EW000530	EW000533	EW001158	EW001159
	EW001166	EW001645	EW001646	EW001651	EW001655	EW001872	EW001873	EW001874
	EW001880	EW003046	EW003753	EW003763	EW003772			
MECHANICAL EQUIPMENT	(8)	EW000257	EW000265	EW001162	EW001644	EW001647	EW001871	EW001875
	EW001881							
*MECHANICAL SEALS	(3)	EW001158	EW001644	EW001647				
MECHANICS	(1)	EW000528						
*MECHANICS (PHYSICS)	(2)	EW003001	EW003254					
*MEDIA SELECTION	(2)	EW003490	EW003491					
*MEDICINE	(1)	EW003406						
MERCHANDISE INFORMATION	(1)	EW003664						
MERCHANDISING	(1)	EW003664						
*MERCHANTS	(1)	EW003439						
*MERCURY	(6)	EW001968	EW003246	EW003247	EW003399	EW003545	EW003559	
*METABOLITES	(2)	EW003246	EW003247					
METABOLITES	(4)	EW003168	EW003900	EW003901	EW003902			
*METAL INDUSTRY	(2)	EW003571	EW003730					
*METALLIC PESTICIDES	(1)	EW003246						
METALLURGY	(1)	EW003463						
*METALS	(21)	EW000538	EW002239	EW002240	EW002241	EW002242	EW002243	EW002244
	EW002245	EW002246	EW002247	EW002248	EW002413	EW002917	EW002919	EW003040
	EW003258	EW003276	EW003477	EW003545	EW003579	EW003734		
METALS	(13)	EW000846	EW001917	EW002068	EW002930	EW003014	EW003017	EW003026
	EW003043	EW003168	EW003197	EW003230	EW003730	EW003736		
*METAL WORK	(1)	EW001895						
*METEOROLOGY	(2)	EW000730	EW003388					
METEOROLOGY	(3)	EW000794	EW003201	EW003512				
*METHODS	(2)	EW003372	EW003844					
*METHODS RESEARCH	(1)	EW003827						
*METRIC SYSTEM	(2)	EW003298	EW003321					
*METROPOLITAN AREAS	(1)	EW003394						
METROPOLITAN AREAS	(2)	EW003312	EW003391					
*MICHIGAN	(6)	EW002935	EW003291	EW003292	EW003293	EW003294	EW003611	
MICHIGAN	(2)	EW003126	EW003890					
MICHIGAN (MUSKEGON COUNTY)	(4)	EW003291	EW003292	EW003293	EW003294			
*MICROBIOLOGY	(26)	EW000185	EW000435	EW000514	EW000575	EW000888	EW001039	EW001247
	EW001249	EW001412	EW001833	EW002044	EW002169	EW002773	EW002880	EW003009
	EW003059	EW003112	EW003118	EW003123	EW003193	EW003248	EW003346	EW003492
	EW003585	EW003831	EW003836					
MICROBIOLOGY	(17)	EW000510	EW000512	EW000844	EW001448	EW002413	EW002918	EW002920
	EW003154	EW003164	EW003247	EW003256	EW003262	EW003265	EW003513	EW003747
	EW003748	EW003788						
*MIDDLE EASTERN STUDIES	(1)	EW003355						
*MILITARY ORGANIZATIONS	(2)	EW003462	EW003658					
*MILITARY PERSONNEL	(1)	EW003761						
MILITARY PERSONNEL	(1)	EW003753						
*MILITARY SCIENCE	(1)	EW003753						
*MILITARY TRAINING	(2)	EW003343	EW003753					

MILITARY TRAINING	(2)	EW003763	EW003766					
MINERALS	(2)	EW002932	EW002933					
MINICOURSES	(1)	EW003310						
MINING	(1)	EW003858						
MINING	(1)	EW000736						
MINING INDUSTRY	(2)	EW002047	EW002356					
MINNESOTA	(1)	EW003612						
MICROBIOLOGY	(1)	EW001248						
MISSISSIPPI	(1)	EW003613						
MISSISSIPPI STATE UNIVERSITY	(2)	EW003495	EW003888					
MISSOURI	(2)	EW003614	EW003889					
MIXERS	(1)	EW000253						
MODELS	(11)	EW000991	EW001751	EW002622	EW002884	EW002887	EW002890	EW002891
	EW002892	EW002897	EW003830	EW003833				
MODELS	(6)	EW001925	EW001951	EW002057	EW003373	EW003394	EW003451	
MONITORING	(37)	EW000189	EW000784	EW000999	EW001035	EW001036	EW001406	EW001632
	EW002021	EW002022	EW002355	EW002375	EW002390	EW002589	EW002778	EW002916
	EW002917	EW002918	EW002919	EW002920	EW002921	EW002922	EW002939	EW002948
	EW002957	EW003014	EW003017	EW003101	EW003193	EW003245	EW003259	EW003262
	EW003436	EW003464	EW003471	EW003502	EW003522	EW003527		
MONITORING	(7)	EW000889	EW001448	EW001833	EW001834	EW002009	EW002040	EW002074
MONTANA	(1)	EW003615						
MONTEREY BAY	(1)	EW003415						
MOTIVATION	(2)	EW001225	EW001519					
MOTORS	(5)	EW000526	EW001159	EW001645	EW002006	EW002007		
MOTOR VEHICLES	(2)	EW000267	EW000268					
MOTOR VEHICLES	(5)	EW003754	EW003755	EW003756	EW003757	EW003758		
MUD	(1)	EW000191						
MULTIMEDIA INSTRUCTION	(1)	EW003393						
MULTIMEDIA INSTRUCTION	(1)	EW003827						
MULTIPLE CHOICE TESTS	(3)	EW003072	EW003073	EW003495				
MUNICIPALITIES	(7)	EW000124	EW002935	EW002954	EW002955	EW003362	EW003535	EW003692
MUNICIPALITIES	(27)	EW001438	EW002909	EW002942	EW002950	EW002953	EW003016	EW003032
	EW003034	EW003067	EW003116	EW003126	EW003128	EW003139	EW003169	EW003330
	EW003455	EW003500	EW003539	EW003568	EW003570	EW003582	EW003691	EW003693
	EW003708	EW003710	EW003785	EW003842				
MUNICIPAL WASTES	(15)	EW000117	EW000164	EW000573	EW000831	EW000855	EW001607	EW001921
	EW001925	EW002077	EW002453	EW003042	EW003043	EW003704	EW003705	EW003707
MUNICIPAL WASTES	(5)	EW001601	EW001661	EW003040	EW003041	EW003044		
NAMASKEAG RIVER	(1)	EW003410						
NATIONAL DISPOSAL SITE	(1)	EW003036						
NATIONAL PROGRAMS	(1)	EW003323						
NATIONAL PROGRAMS	(1)	EW003021						
NATIONAL SCIENCE BOARD	(1)	EW003345						
NATIONAL SCIENCE FOUNDATION	(1)	EW003338						
NATIONAL SURVEYS	(15)	EW003408	EW003485	EW003486	EW003487	EW003488	EW003679	EW003680
	EW003681	EW003682	EW003683	EW003684	EW003685	EW003686	EW003687	EW003688
NATIONAL SURVEYS	(14)	EW003642	EW003643	EW003644	EW003645	EW003648	EW003649	EW003650
	EW003651	EW003652	EW003653	EW003654	EW003655	EW003656	EW003657	
NATIONAL WEATHER SERVICE	(1)	EW003378						
NATURAL RESOURCES	(49)	EW000158	EW000168	EW000631	EW001244	EW001691	EW001832	EW002947
	EW002948	EW002949	EW002963	EW003003	EW003004	EW003028	EW003034	EW003152
	EW003165	EW003167	EW003242	EW003244	EW003256	EW003276	EW003289	EW003290
	EW003297	EW003305	EW003345	EW003409	EW003415	EW003423	EW003425	EW003432
	EW003440	EW003453	EW003459	EW003537	EW003662	EW003665	EW003670	EW003695
	EW003722	EW003728	EW003745	EW003746	EW003750	EW003798	EW003805	EW003838
	EW003858	EW003897						
NATURAL RESOURCES	(120)	EW000488	EW000840	EW000888	EW000889	EW001041	EW001096	EW001153
	EW001271	EW001275	EW001276	EW001302	EW001425	EW001448	EW001830	EW002058
	EW002084	EW002564	EW002617	EW002620	EW002893	EW002906	EW002910	EW002911
	EW002930	EW002931	EW002932	EW002950	EW002956	EW002957	EW002988	EW002993
	EW003014	EW003017	EW003019	EW003021	EW003026	EW003029	EW003046	EW003047
	EW003059	EW003070	EW003102	EW003105	EW003107	EW003129	EW003132	EW003170
	EW003171	EW003202	EW003214	EW003217	EW003221	EW003224	EW003248	EW003249
	EW003254	EW003259	EW003260	EW003261	EW003263	EW003264	EW003265	EW003267
	EW003268	EW003269	EW003274	EW003299	EW003301	EW003302	EW003303	EW003304
	EW003306	EW003307	EW003309	EW003312	EW003315	EW003336	EW003339	EW003340
	EW003341	EW003342	EW003353	EW003356	EW003367	EW003368	EW003372	EW003374
	EW003378	EW003380	EW003403	EW003413	EW003424	EW003431	EW003441	EW003444
	EW003454	EW003460	EW003466	EW003478	EW003493	EW003573	EW003659	EW003660
	EW003689	EW003716	EW003719	EW003731	EW003732	EW003733	EW003806	EW003830
	EW003835	EW003840	EW003846	EW003850	EW003861	EW003898	EW003918	EW003920
	EW003920							
NATURAL SCIENCES	(3)	EW003345	EW003353	EW003360				
NATURAL WATERS	(1)	EW003026						
NAVY	(2)	EW003072	EW003073					
NEBRASKA	(1)	EW003616						
NEBRASKA	(3)	EW003439	EW003772	EW003773				

NEEDS	(1)	EW000561
NEEDS ASSESSMENT	(1)	EW002620
*NEUTRALIZATION	(1)	EW003554
NEVADA	(1)	EW003617
NEW ENGLAND	(1)	EW000690
*NEW HAMPSHIRE	(1)	EW003618
*NEW JERSEY	(2)	EW003244 EW003619
*NEW MEXICO	(1)	EW003620
NEW MEXICO	(1)	EW003379
*NEWS MEDIA	(1)	EW003317
NEWS MEDIA	(1)	EW003415
NEWS REPORTING	(1)	EW003317
*NEW YORK	(2)	EW003621 EW003693
*NEW YORK CITY	(1)	EW002002
NEW YORK METROPOLITAN REGION	(1)	EW003394
*NITRATES	(1)	EW002952
NITRIFICATION	(2)	EW000991 EW001971
*NITROGEN	(6)	EW000467 EW003239 EW003437 EW003519 EW003530 EW003812
NITROGEN	(1)	EW003174
NOISE	(70)	EW003462 EW003589 EW003590 EW003591 EW003592 EW003593 EW003595 EW003596 EW003597 EW003598 EW003599 EW003600 EW003601 EW003603 EW003604 EW003605 EW003606 EW003607 EW003608 EW003609 EW003611 EW003612 EW003613 EW003614 EW003615 EW003616 EW003617 EW003619 EW003620 EW003621 EW003622 EW003623 EW003624 EW003625 EW003627 EW003628 EW003629 EW003630 EW003631 EW003632 EW003633 EW003635 EW003636 EW003637 EW003638 EW003639 EW003640 EW003641 EW003643 EW003644 EW003645 EW003646 EW003647 EW003648 EW003649 EW003651 EW003652 EW003653 EW003654 EW003655 EW003656 EW003657
*NOISE CONTROL	(2)	EW001646 EW001654
*NOISE POLLUTION	(3)	EW003354 EW003684 EW003715
NOISE POLLUTION	(1)	EW003198
*NOISE POLLUTION CONTROL	(1)	EW001088
NOISE POLLUTION CONTROL	(2)	EW003723 EW003725
*NONPOINT POLLUTION	(1)	EW002910
NONPOINT POLLUTION	(1)	EW003860
*NONPOINT SOURCES	(1)	EW003782
NORMS	(3)	EW003382 EW003411 EW003759
*NORTH CAROLINA	(2)	EW003188 EW003622
*NORTH DAKOTA	(1)	EW003623
NSF	(1)	EW003338
*NUCLEAR PHYSICS	(2)	EW003017 EW003424
NUCLEAR PHYSICS	(1)	EW003686
*NUCLEAR POWER PLANTS	(1)	EW003285
NUCLEAR POWER PLANTS	(1)	EW003415
NUCLEAR POWER SYSTEMS	(1)	EW001155
*NUTRIENT REMOVAL	(1)	EW001921
NUTRIENT REMOVAL	(1)	EW001260
*NUTRIENTS	(6)	EW001921 EW002042 EW002916 EW002921 EW002932 EW003496
NUTRIENTS	(4)	EW002074 EW002931 EW002933 EW002934
NUTRITION	(1)	EW003713
*OBJECTIVES	(1)	EW003535
OBJECTIVES	(3)	EW002966 EW003359 EW003847
*OBSERVATION	(1)	EW002863
OBSERVATION	(1)	EW003328
*OCCUPATIONAL CLUSTERS	(1)	EW003760
OCCUPATIONAL CLUSTERS	(1)	EW003771
*OCCUPATIONAL DISEASES	(1)	EW003713
OCCUPATIONAL GUIDANCE	(4)	EW003382 EW003411 EW003759 EW003760
*OCCUPATIONAL HEALTH AND SAFETY ACT	(1)	EW003082
*OCCUPATIONAL INFORMATION	(3)	EW003344 EW003469 EW003767
OCCUPATIONAL INFORMATION	(6)	EW001382 EW003291 EW003293 EW003760 EW003772 EW003773
OCCUPATIONAL MOBILITY	(1)	EW003429
*OCCUPATIONAL SAFETY AND HEALTH ACT	(1)	EW003066
*OCCUPATIONAL SURVEYS	(1)	EW003447
OCCUPATIONAL SURVEYS	(1)	EW003344
*OCEAN ENGINEERING	(3)	EW001658 EW003028 EW003335
OCEAN ENGINEERING	(3)	EW003046 EW003225 EW003380

OCEANOLOGY	(34)	EW001083	EW001097	EW001658	EW001812	EW002037	EW002379	EW002390
	EW002892	EW002930	EW002931	EW002933	EW002934	EW002939	EW003024	EW003028
	EW003029	EW003030	EW003046	EW003151	EW003152	EW003171	EW003194	EW003219
	EW003220	EW003256	EW003285	EW003289	EW003296	EW003390	EW003397	EW003696
	EW003824	EW003850	EW003903					
OCEANOLOGY	(11)	EW000841	EW001424	EW002044	EW002886	EW002948	EW003132	EW003335
	EW003398	EW003799	EW003837	EW003839				
OCEAN POLLUTION	(2)	EW002355	EW002613					
OCEANS	(1)	EW002892						
ODOR	(1)	EW003067						
ODOR	(1)	EW003654						
ODOR DETECTION	(1)	EW003789						
ODORS	(1)	EW003098						
ODORS	(1)	EW003052						
OFF FARM AGRICULTURAL OCCUPATIONS	(1)	EW003291						
OFF FARM AGRICULTURAL OCCUPATIONS	(4)	EW003292	EW003293	EW003294	EW003344			
OFFICE SAFETY	(4)	EW000318	EW000319	EW002850	EW002866			
OHIO	(3)	EW003300	EW003391	EW003624				
OHIO RIVER	(2)	EW000801	EW001810					
OIL	(3)	EW000901	EW002376	EW003024				
OIL	(4)	EW000922	EW002068	EW003174	EW003903			
OIL POLLUTION	(1)	EW003104						
OIL SPILLS	(10)	EW000175	EW000998	EW001922	EW002037	EW002056	EW002390	EW003046
	EW003047	EW003228	EW003229					
OIL SPILLS	(2)	EW000690	EW000691					
OKLAHOMA	(2)	EW003021	EW003625					
ONSITE DISPOSAL	(2)	EW003203	EW003210					
ONSITE DISPOSAL	(1)	EW003211						
ONSITE DISPOSAL (WASTEWATER)	(1)	EW003690						
ONSITE SEWAGE TREATMENT	(1)	EW003811						
ONSITE SYSTEMS	(1)	EW003461						
ONSITE WASTEWATER SYSTEMS	(2)	EW003210	EW003211					
ONSITE WASTEWATER TREATMENT	(8)	EW003209	EW003210	EW003211	EW003812	EW003813	EW003814	EW003815
	EW003816							
ONTARIO	(8)	EW003143	EW003144	EW003145	EW003146	EW003147	EW003148	EW003149
	EW003150							
ON THE JOB TRAINING	(1)	EW003770						
OPERATING ENGINEERING	(3)	EW001112	EW001382	EW003115				
OPERATION ANALYSIS	(2)	EW003709	EW003780					
OPERATIONS	(24)	EW000139	EW000140	EW000287	EW000290	EW000302	EW000303	EW000306
	EW000307	EW000308	EW000309	EW000322	EW000323	EW000324	EW000444	EW000833
	EW001071	EW001880	EW001916	EW001954	EW002011	EW002012	EW002889	EW002890
	EW003167							
OPERATIONS	(26)	EW000312	EW000313	EW000314	EW000315	EW000316	EW000317	EW000318
	EW000319	EW000320	EW000321	EW001340	EW001342	EW001411	EW001412	EW001478
	EW001491	EW001494	EW001923	EW001955	EW001961	EW001962	EW002013	EW002014
	EW002402	EW002417	EW002453					
OPERATIONS (PLANT)	(4)	EW000867	EW001883	EW001887	EW001894			
OPERATIONS (PLANT)	(3)	EW000037	EW001464	EW001838				
OPERATIONS PLANT	(1)	EW001840						
OPERATIONS RESEARCH	(1)	EW003402						
OPERATIONS RESEARCH	(1)	EW003395						
OPERATIONS (WASTEWATER)	(78)	EW000116	EW000117	EW000120	EW000121	EW000126	EW000128	EW000141
	EW000512	EW000554	EW000561	EW000771	EW000852	EW000902	EW000903	EW001001
	EW001020	EW001022	EW001023	EW001024	EW001025	EW001033	EW001112	EW001260
	EW001738	EW001806	EW002068	EW002419	EW002896	EW002922	EW002946	EW002953
	EW002955	EW002958	EW003060	EW003065	EW003166	EW003169	EW003173	EW003195
	EW003197	EW003203	EW003206	EW003222	EW003250	EW003262	EW003271	EW003272
	EW003324	EW003328	EW003330	EW003331	EW003332	EW003333	EW003334	EW003348
	EW003382	EW003400	EW003414	EW003445	EW003481	EW003500	EW003529	EW003554
	EW003556	EW003568	EW003569	EW003570	EW003577	EW003699	EW003705	EW003710
	EW003712	EW003752	EW003767	EW003810	EW003821	EW003822	EW003823	
OPERATIONS (WASTEWATER)	(24)	EW000003	EW000119	EW000124	EW000455	EW000553	EW000857	EW001027
	EW001697	EW002069	EW002976	EW002978	EW002979	EW002980	EW002981	EW002982
	EW002983	EW002984	EW002985	EW002987	EW003245	EW003536	EW003698	EW003702
	EW003800							
OPERATIONS (WATER)	(45)	EW000001	EW000002	EW000008	EW000020	EW000021	EW000022	EW000025
	EW000042	EW000046	EW000049	EW000052	EW000054	EW000055	EW000056	EW000058

	EW000059	EW000060	EW000061	EW000111	EW000445	EW000446	EW000447	EW000470
	EW000471	EW000508	EW000510	EW000517	EW000561	EW000835	EW000957	EW001033
	EW001111	EW002776	EW002900	EW002989	EW003166	EW003186	EW003187	EW003274
	EW003277	EW003382	EW003538	EW003539	EW003801	EW003817		
OPERATIONS (WATER)	(22)	EW000003	EW000012	EW000024	EW000040	EW000041	EW000043	EW000045
	EW000048	EW000050	EW000051	EW000857	EW001738	EW002988	EW002990	EW002991
	EW002992	EW002994	EW002995	EW002996	EW002997	EW003067	EW003536	
*OPERATORS	(2)	EW000442	EW000443					
OPERATORS WATER	(1)	EW000047						
OPTICS	(1)	EW003268						
*OREGON	(1)	EW003626						
OREGON	(1)	EW003778						
*ORGANIC CARBON	(1)	EW000771						
*ORGANIC CHEMISTRY	(16)	EW000405	EW000771	EW001025	EW001631	EW001966	EW002928	EW003063
	EW003238	EW003251	EW003252	EW003264	EW003521	EW003542	EW003544	EW003786
	EW003819							
ORGANIC CHEMISTRY	(8)	EW001448	EW002939	EW002940	EW003022	EW003194	EW003480	EW003585
	EW003669							
*ORGANIC COMPOUNDS	(7)	EW003023	EW003041	EW003044	EW003168	EW003174	EW003521	EW003734
ORGANIC COMPOUNDS	(1)	EW003903						
*ORGANIZATION	(1)	EW003659						
ORGANIZATION	(2)	EW003329	EW003667					
*ORGANIZATIONAL COMMUNICATION	(1)	EW003840						
*ORGANIZATIONS (GROUPS)	(2)	EW003377	EW003588					
*ORGANOPHOSPHATES	(1)	EW002382						
ORNAMENTAL HORTICULTURE	(1)	EW003291						
*OSHA	(1)	EW002386						
OSMOSIS	(1)	EW001920						
*OUTDOOR EDUCATION	(2)	EW003311	EW003431					
OUTDOOR EDUCATION	(5)	EW001830	EW001832	EW003336	EW003339	EW003453		
*OXYGEN	(11)	EW000539	EW000540	EW000544	EW000557	EW001024	EW001765	EW001834
	EW001961	EW001962	EW002042	EW003084				
OXYGEN	(1)	EW003174						
*OZONE	(2)	EW001032	EW003494					
*PACKING	(1)	EW000528						
*PAINTING	(1)	EW000104						
*PAINTS	(2)	EW000073	EW000127					
PARAPROFESSIONAL PERSONNEL	(1)	EW003777						
*PARK DESIGN	(1)	EW003474						
PARKS	(1)	EW003474						
PARTICIPANT INVOLVEMENT	(1)	EW003356						
PARTICIPANT SATISFACTION	(1)	EW003328						
*PARTICULATE WASTES	(2)	EW003564	EW003565					
*PATENTS	(2)	EW003172	EW003251					
*PATHOGENS	(3)	EW003016	EW003193	EW003513				
PATHOLOGY	(2)	EW003230	EW003513					
*PCB	(2)	EW001966	EW003819					
PCB	(1)	EW003903						
*PCT	(1)	EW003819						
*PENNSYLVANIA	(1)	EW003627						
PENNSYLVANIA	(4)	EW003134	EW003135	EW003136	EW003329			
PENNSYLVANIA COOPERATIVE EXTENSION	(2)	EW003107	EW003329					
*PENNSYLVANIA STATE UNIVERSITY	(1)	EW003894						
*PENTACHLOROPHENAL	(1)	EW003901						
PERCENTS	(1)	EW000241						
*PERCEPTION	(1)	EW003740						
*PERFORMANCE BASED EDUCATION	(1)	EW003777						
PERFORMANCE BASED EDUCATION	(2)	EW003455	EW003778					
PERFORMANCE CRITERIA	(1)	EW003765						
PERFORMANCE SPECIFICATIONS	(1)	EW001382						
*PERIODICALS	(6)	EW000112	EW000113	EW000114	EW000115	EW002088	EW003377	
PERIODICALS	(1)	EW003399						
PERMITS	(1)	EW003726						
PERSISTENT PESTICIDES	(1)	EW003902						

PERSONNEL	(1)	EW003388						
PERSONNEL	(2)	EW001337	EW003726					
PERSONNEL EVALUATION	(3)	EW003382	EW003411	EW003759				
PERSONNEL MANAGEMENT	(1)	EW003081						
PEST CONTROL	(3)	EW003890	EW003900	EW003902				
PEST CONTROL	(1)	EW003052						
PESTICIDES	(44)	EW001663	EW001969	EW001973	EW002382	EW003622	EW003639	EW003104
	EW003125	EW003168	EW003324	EW003358	EW003376	EW003384	EW003406	EW003412
	EW003422	EW003495	EW003664	EW003669	EW003729	EW003734	EW003824	EW003825
	EW003826	EW003827	EW003862	EW003863	EW003864	EW003865	EW003866	EW003888
	EW003889	EW003890	EW003891	EW003892	EW003893	EW003896	EW003897	EW003898
	EW003899	EW003900	EW003902	EW003903	EW003918			
PESTICIDES	(113)	EW000846	EW001275	EW002169	EW002940	EW002965	EW003124	EW003129
	EW003154	EW003199	EW003246	EW003247	EW003344	EW003363	EW003377	EW003383
	EW003399	EW003428	EW003439	EW003444	EW003464	EW003472	EW003476	EW003504
	EW003589	EW003590	EW003591	EW003592	EW003593	EW003594	EW003595	EW003596
	EW003597	EW003598	EW003599	EW003600	EW003601	EW003602	EW003603	EW003604
	EW003605	EW003606	EW003607	EW003608	EW003609	EW003610	EW003611	EW003612
	EW003613	EW003614	EW003615	EW003616	EW003617	EW003618	EW003619	EW003620
	EW003621	EW003622	EW003623	EW003624	EW003625	EW003626	EW003627	EW003628
	EW003629	EW003630	EW003631	EW003632	EW003633	EW003634	EW003635	EW003636
	EW003637	EW003638	EW003639	EW003640	EW003641	EW003642	EW003643	EW003644
	EW003645	EW003646	EW003647	EW003648	EW003649	EW003650	EW003651	EW003652
	EW003653	EW003654	EW003655	EW003656	EW003657	EW003658	EW003663	EW003667
	EW003668	EW003670	EW003679	EW003681	EW003685	EW003688	EW003713	EW003715
	EW003716	EW003718	EW003719	EW003722	EW003723	EW003725	EW003727	EW003736
	EW003796	EW003834						
PEST MANAGEMENT	(1)	EW003918						
*PESTS	(2)	EW000027	EW003422					
*PETROLEUM INDUSTRY	(6)	EW001422	EW001922	EW002084	EW003035	EW003104	EW003403	
PETROLEUM INDUSTRY	(1)	EW003024						
*PH	(4)	EW001027	EW001419	EW001757	EW001758			
PH	(2)	EW003554	EW003895					
PH CALCULATION	(1)	EW003120						
*PHENOLICS	(1)	EW000541						
*PH METERS	(2)	EW001063	EW001762					
*PHONOTAPE RECORDINGS	(1)	EW002242						
PHONOTAPE RECORDINGS	(10)	EW002239	EW002240	EW002241	EW002243	EW002244	EW002245	EW002246
	EW002247	EW002248	EW003393					
PHOSPHATES	(2)	EW001419	EW003042					
*PHOSPHORUS	(5)	EW000542	EW002926	EW003239	EW003437	EW003523		
*PHOTOGRAPHY	(8)	EW003548	EW003549	EW003550	EW003551	EW003552	EW003561	EW003745
	EW003750							
PHYSICAL DESIGN NEEDS	(2)	EW003231	EW003232					
*PHYSICAL ENVIRONMENT	(3)	EW003046	EW003201	EW003745				
PHYSICAL ENVIRONMENT	(4)	EW003151	EW003315	EW003343	EW003454			
*PHYSICAL GEOGRAPHY	(1)	EW003728						
PHYSICAL GEOGRAPHY	(1)	EW003030						
*PHYSICAL SCIENCES	(5)	EW003076	EW003267	EW003301	EW003396	EW003743		
PHYSICAL SCIENCES	(4)	EW002404	EW003006	EW003152	EW003405			
*PHYSICS	(7)	EW000282	EW001877	EW001948	EW001949	EW003013	EW003231	EW003232
PHYSICS	(9)	EW000269	EW000510	EW000512	EW001886	EW002009	EW003001	EW003012
	EW003322	EW003753						
*PHYSIOLOGY	(4)	EW002928	EW003747	EW003901	EW003903			
PHYSIOLOGY	(3)	EW003247	EW003477	EW003819				
PHYSIOLOGY (ANIMAL)	(1)	EW003246						
*PIPE FITTINGS	(7)	EW000067	EW000078	EW000101	EW001888	EW001889	EW001890	EW001892
PIPE FITTINGS	(1)	EW001887						
*PIPE FLANGES	(1)	EW000077						
*PIPE LININGS	(2)	EW000064	EW000093					
PIPE LININGS	(2)	EW000075	EW001838					
*PIPES	(41)	EW000028	EW000029	EW000031	EW000063	EW000064	EW000065	EW000066
	EW000067	EW000068	EW000069	EW000070	EW000071	EW000072	EW000073	EW000074
	EW000075	EW000076	EW000077	EW000078	EW000079	EW000080	EW000081	EW000082
	EW000083	EW000084	EW000091	EW000092	EW000093	EW000094	EW000101	EW000257
	EW000258	EW000259	EW000260	EW000261	EW001161	EW001653	EW001838	EW001870
	EW003532	EW003787						
PIPES	(1)	EW003553						
PIPES (WATER)	(1)	EW003255						
*PISTON RINGS	(1)	EW001162						
PLANKTON	(1)	EW000991						
*PLANNING	(21)	EW000110	EW000858	EW001002	EW001468	EW001705	EW001827	EW001829
	EW002001	EW002023	EW002024	EW002436	EW002615	EW002893	EW002948	EW003015
	EW003244	EW003337	EW003468	EW003474	EW003738	EW003848		
PLANNING	(13)	EW000561	EW001519	EW001608	EW002039	EW003213	EW003362	EW003404
	EW003423	EW003728	EW003744	EW003844	EW003846	EW003860		

PLANNING COMMISSIONS	(1)	EW003840						
*PLANNING MEETINGS	(1)	EW003457						
*PLANT CONSTRUCTION	(1)	EW002421						
PLANT DISEASES	(1)	EW002044						
*PLANT GROWTH	(3)	EW002925	EW002952	EW003477				
PLANT GROWTH	(4)	EW003107	EW003451	EW003579	EW003689			
*PLANT IDENTIFICATION	(3)	EW003107	EW003836	EW003894				
*PLANT OPERATIONS	(2)	EW000548	EW000904					
PLANT OPERATIONS	(1)	EW003002						
*PLANT OPERATORS	(12)	EW000263	EW000264	EW000265	EW000266	EW000276	EW000277	EW00027
	EW000279	EW000280	EW000281	EW000283	EW000286			
PLANT OPERATORS	(5)	EW000271	EW000272	EW000282	EW000284	EW000290		
*PLANT PATHOLOGY	(1)	EW003918						
PLANT PATHOLOGY	(1)	EW003788						
PLANT PERFORMANCE	(1)	EW000014						
*PLANT SCIENCE	(2)	EW003003	EW003918					
PLANT SCIENCE	(4)	EW003107	EW003524	EW003892	EW003894			
PLASTIC PIPES	(1)	EW001838						
*PLASTICS INDUSTRY	(1)	EW002402						
*PLUMBING	(19)	EW000029	EW000079	EW000085	EW000088	EW000095	EW000257	EW00025
	EW000259	EW000260	EW001161	EW001648	EW001896	EW003182	EW003717	EW00376
	EW003770	EW003771	EW003773	EW003776				
PLUMBING	(36)	EW000031	EW000063	EW000064	EW000065	EW000068	EW000069	EW0000
	EW000071	EW000072	EW000073	EW000075	EW000077	EW000078	EW000080	EW0000
	EW000082	EW000084	EW000087	EW000089	EW000090	EW000091	EW000092	EW0000
	EW000094	EW000096	EW000097	EW000098	EW000099	EW000100	EW000101	EW00010
	EW000261	EW001870	EW003179	EW003255	EW003343			
*PLUTONIUM	(1)	EW003543						
POINT POLLUTION	(1)	EW003860						
*POISONS	(2)	EW003246	EW003247					
POISONS	(2)	EW003559	EW003896					
*POLICIES	(1)	EW003028						
*POLICY	(4)	EW002617	EW002624	EW002898	EW003922			
POLICY	(2)	EW001092	EW003318					
*POLICY FORMATION	(2)	EW002620	EW003318					
POLICY FORMATION	(4)	EW003070	EW003418	EW003749	EW003846			
*POLITICAL ISSUES	(1)	EW003844						
*POLITICS	(2)	EW002620	EW003846					
*POLLUTANTS	(24)	EW001663	EW001917	EW001963	EW001964	EW001966	EW001967	EW00196
	EW001969	EW001973	EW002009	EW002068	EW002355	EW002402	EW002417	EW00246
	EW002613	EW002774	EW002939	EW002940	EW003017	EW003168	EW003544	EW00378
	EW003807							
POLLUTANTS	(4)	EW001632	EW002614	EW002780	EW003903			
*POLLUTANTS (INDUSTRIAL)	(7)	EW001922	EW001951	EW001954	EW001957	EW003036	EW003037	EW00304
POLLUTANTS (INDUSTRIAL)	(8)	EW001947	EW001952	EW003039	EW003041	EW003042	EW003043	EW00304
	EW003715							
*POLLUTION	(317)	EW000165	EW000168	EW000175	EW000181	EW000416	EW000525	EW00054
	EW000563	EW000574	EW000690	EW000691	EW000736	EW000737	EW000786	EW00081
	EW000842	EW000844	EW000846	EW000854	EW000861	EW000974	EW000982	EW00099
	EW001005	EW001023	EW001025	EW001026	EW001085	EW001085	EW001087	EW00109
	EW001096	EW001117	EW001119	EW001163	EW001275	EW001302	EW001387	EW00141
	EW001438	EW001456	EW001631	EW001654	EW001658	EW001663	EW001737	EW00192
	EW001924	EW001925	EW001950	EW001963	EW001964	EW001969	EW002002	EW00203
	EW002040	EW002058	EW002169	EW002254	EW002376	EW002379	EW002390	EW00240
	EW002453	EW002510	EW002589	EW002592	EW002614	EW002624	EW002714	EW00278
	EW002873	EW002892	EW002898	EW002910	EW002916	EW002917	EW002918	EW00291
	EW002920	EW002921	EW002926	EW002928	EW002930	EW002932	EW002939	EW00294
	EW002943	EW002944	EW002945	EW002947	EW002950	EW002951	EW002952	EW00295
	EW002958	EW002959	EW002960	EW002961	EW002962	EW002964	EW002965	EW00296
	EW002969	EW002971	EW002972	EW002973	EW002974	EW002999	EW003000	EW00300
	EW003014	EW003015	EW003016	EW003017	EW003018	EW003019	EW003023	EW00302
	EW003026	EW003030	EW003033	EW003046	EW003047	EW003051	EW003059	EW00306
	EW003061	EW003062	EW003063	EW003064	EW003066	EW003067	EW003102	EW00310
	EW003124	EW003126	EW003127	EW003130	EW003131	EW003132	EW003133	EW00313
	EW003138	EW003143	EW003144	EW003145	EW003146	EW003148	EW003149	EW00315
	EW003153	EW003155	EW003156	EW003162	EW003169	EW003171	EW003172	EW00317
	EW003195	EW003196	EW003198	EW003199	EW003206	EW003209	EW003210	EW00321
	EW003212	EW003213	EW003215	EW003219	EW003225	EW003226	EW003227	EW00322
	EW003229	EW003233	EW003249	EW003259	EW003265	EW003296	EW003299	EW00335
	EW003351	EW003354	EW003370	EW003399	EW003406	EW003408	EW003412	EW00341
	EW003430	EW003433	EW003437	EW003438	EW003443	EW003444	EW003464	EW00347
	EW003496	EW003497	EW003499	EW003502	EW003515	EW003534	EW003545	EW00356
	EW003565	EW003566	EW003567	EW003589	EW003590	EW003591	EW003592	EW00359
	EW003594	EW003595	EW003596	EW003597	EW003598	EW003599	EW003600	EW00360
	EW003602	EW003603	EW003604	EW003605	EW003606	EW003607	EW003608	EW00360
	EW003610	EW003611	EW003612	EW003613	EW003614	EW003615	EW003616	EW00361
	EW003618	EW003619	EW003620	EW003621	EW003622	EW003623	EW003624	EW00362
	EW003626	EW003627	EW003628	EW003629	EW003630	EW003631	EW003632	EW00363
	EW003634	EW003635	EW003636	EW003637	EW003638	EW003639	EW003640	EW00364
	EW003642	EW003643	EW003644	EW003645	EW003646	EW003647	EW003648	EW00364
	EW003650	EW003651	EW003652	EW003653	EW003654	EW003655	EW003656	EW00365
	EW003658	EW003659	EW003660	EW003662	EW003663	EW003665	EW003669	EW00371
	EW003715	EW003725	EW003729	EW003730	EW003732	EW003733	EW003735	EW00373
	EW003737	EW003739	EW003749	EW003785	EW003788	EW003796	EW003807	EW00381

	EW003819	EW003834	EW003835	EW003838	EW003842	EW003849	EW003858	EW003860
	EW003898	EW003902	EW003903	EW003919	EW003921	EW003922		
POLLUTION	(307)	EW000185	EW000188	EW000190	EW000413	EW000455	EW000466	EW000467
	EW000539	EW000540	EW000541	EW000542	EW000543	EW000544	EW000545	EW000546
	EW000547	EW000548	EW000556	EW000557	EW000558	EW000575	EW000631	EW000780
	EW000784	EW000801	EW000832	EW000848	EW000857	EW000870	EW000871	EW000872
	EW000888	EW000889	EW000890	EW000891	EW000901	EW000902	EW000903	EW000904
	EW000981	EW000999	EW001000	EW001020	EW001021	EW001024	EW001027	EW001039
	EW001041	EW001042	EW001043	EW001044	EW001088	EW001094	EW001119	EW001396
	EW001422	EW001448	EW001632	EW001697	EW001733	EW001762	EW001765	EW001810
	EW001830	EW001831	EW001921	EW001922	EW001952	EW001954	EW001955	EW001957
	EW001966	EW001967	EW001968	EW002009	EW002021	EW002022	EW002023	EW002056
	EW002068	EW002170	EW002356	EW002402	EW002413	EW002417	EW002436	EW002460
	EW002461	EW002564	EW002774	EW002889	EW002909	EW002912	EW002925	EW002934
	EW002935	EW002948	EW002953	EW002954	EW002970	EW002975	EW003008	EW003020
	EW003022	EW003029	EW003034	EW003048	EW003056	EW003058	EW003065	EW003069
	EW003071	EW003115	EW003117	EW003125	EW003128	EW003129	EW003135	EW003136
	EW003137	EW003139	EW003154	EW003157	EW003159	EW003160	EW003161	EW003163
	EW003164	EW003165	EW003166	EW003167	EW003175	EW003176	EW003177	EW003178
	EW003182	EW003188	EW003189	EW003190	EW003191	EW003192	EW003193	EW003194
	EW003197	EW003200	EW003202	EW003203	EW003218	EW003222	EW003223	EW003230
	EW003237	EW003238	EW003239	EW003240	EW003241	EW003242	EW003243	EW003245
	EW003248	EW003250	EW003251	EW003252	EW003253	EW003256	EW003257	EW003258
	EW003260	EW003261	EW003262	EW003267	EW003276	EW003277	EW003283	EW003285
	EW003297	EW003304	EW003330	EW003335	EW003339	EW003340	EW003347	EW003348
	EW003356	EW003361	EW003376	EW003379	EW003387	EW003390	EW003392	EW003393
	EW003398	EW003402	EW003407	EW003415	EW003420	EW003425	EW003426	EW003432
	EW003434	EW003440	EW003453	EW003454	EW003461	EW003462	EW003465	EW003469
	EW003470	EW003473	EW003474	EW003476	EW003477	EW003484	EW003485	EW003486
	EW003487	EW003489	EW003489	EW003493	EW003498	EW003500	EW003501	EW003509
	EW003522	EW003527	EW003528	EW003529	EW003530	EW003532	EW003535	EW003536
	EW003538	EW003539	EW003540	EW003541	EW003542	EW003546	EW003547	EW003548
	EW003549	EW003550	EW003551	EW003552	EW003554	EW003558	EW003559	EW003561
	EW003563	EW003568	EW003569	EW003570	EW003571	EW003575	EW003576	EW003577
	EW003578	EW003579	EW003580	EW003581	EW003582	EW003585	EW003667	EW003670
	EW003680	EW003684	EW003689	EW003690	EW003691	EW003692	EW003693	EW003695
	EW003708	EW003709	EW003710	EW003712	EW003717	EW003718	EW003722	EW003746
	EW003780	EW003782	EW003784	EW003789	EW003790	EW003793	EW003794	EW003795
	EW003799	EW003800	EW003801	EW003802	EW003803	EW003811	EW003812	EW003813
	EW003814	EW003815	EW003816	EW003821	EW003822	EW003823	EW003824	EW003848
	EW003861	EW003896	EW003920	EW003926				
POLLUTION CONTROL	(1)	EW002436						
*POLYCHLORINATED BIPHENYLS	(1)	EW001966						
*POLYELECTROLYTES	(1)	EW000885						
*PONDS	(1)	EW003537						
*POPULATION	(1)	EW001005						
*POPULATION EDUCATION	(4)	EW003674	EW003675	EW003676	EW003677			
POPULATION EDUCATION	(2)	EW003356	EW003718					
*POPULATION GROWTH	(1)	EW003716						
POPULATION GROWTH	(1)	EW003444						
*POPULATION TRENDS	(1)	EW003537						
POPULATION TRENDS	(3)	EW003425	EW003716	EW003722				
*POST SECONDARY EDUCATION	(556)	EW000003	EW000008	EW000012	EW000017	EW000018	EW000019	EW000020
	EW000021	EW000022	EW000024	EW000124	EW000135	EW000139	EW000140	EW000141
	EW000142	EW000154	EW000185	EW000204	EW000205	EW000206	EW000207	EW000208
	EW000209	EW000210	EW000211	EW000212	EW000213	EW000214	EW000215	EW000216
	EW000217	EW000218	EW000219	EW000220	EW000221	EW000222	EW000223	EW000224
	EW000225	EW000226	EW000227	EW000230	EW000231	EW000233	EW000234	EW000235
	EW000236	EW000237	EW000238	EW000239	EW000240	EW000241	EW000242	EW000243
	EW000244	EW000245	EW000246	EW000247	EW000248	EW000250	EW000251	EW000252
	EW000253	EW000257	EW000258	EW000259	EW000260	EW000261	EW000262	EW000263
	EW000264	EW000265	EW000266	EW000267	EW000268	EW000269	EW000270	EW000271
	EW000272	EW000273	EW000274	EW000275	EW000276	EW000277	EW000278	EW000279
	EW000280	EW000281	EW000282	EW000283	EW000284	EW000285	EW000286	EW000287
	EW000288	EW000289	EW000290	EW000291	EW000292	EW000294	EW000295	EW000296
	EW000297	EW000298	EW000299	EW000300	EW000301	EW000302	EW000303	EW000304
	EW000305	EW000306	EW000307	EW000308	EW000309	EW000312	EW000313	EW000314
	EW000315	EW000316	EW000317	EW000318	EW000319	EW000320	EW000321	EW000322
	EW000323	EW000324	EW000367	EW000387	EW000389	EW000391	EW000392	EW000393
	EW000394	EW000395	EW000396	EW000397	EW000398	EW000400	EW000401	EW000402
	EW000403	EW000404	EW000405	EW000406	EW000408	EW000443	EW000445	EW000446
	EW000447	EW000455	EW000466	EW000467	EW000470	EW000471	EW000472	EW000485
	EW000486	EW000487	EW000508	EW000510	EW000511	EW000514	EW000517	EW000526
	EW000528	EW000529	EW000530	EW000531	EW000532	EW000533	EW000539	EW000540
	EW000541	EW000542	EW000543	EW000544	EW000545	EW000546	EW000547	EW000548
	EW000549	EW000550	EW000556	EW000557	EW000561	EW000573	EW000574	EW000575
	EW000577	EW000609	EW000611	EW000618	EW000632	EW000771	EW000786	EW000822
	EW000834	EW000835	EW000836	EW000837	EW000840	EW000841	EW000851	EW000852
	EW000857	EW000870	EW000871	EW000872	EW000890	EW000891	EW000899	EW000900
	EW000901	EW000902	EW000903	EW000904	EW000922	EW000957	EW000962	EW000964
	EW000965	EW000967	EW000968	EW000969	EW000970	EW000971	EW000973	EW000974
	EW000975	EW001002	EW001012	EW001020	EW001022	EW001032	EW001035	EW001036
	EW001039	EW001040	EW001041	EW001043	EW001045	EW001049	EW001051	EW001052
	EW001053	EW001055	EW001056	EW001059	EW001060	EW001061	EW001062	EW001063
	EW001064	EW001065	EW001097	EW001112	EW001128	EW001153	EW001155	EW001156
	EW001157	EW001158	EW001159	EW001161	EW001162	EW001163	EW001164	EW001166
	EW001229	EW001242	EW001250	EW001258	EW001406	EW001409	EW001419	EW001422
	EW001464	EW001467	EW001469	EW001470	EW001510	EW001519	EW001561	EW001566
	EW001569	EW001570	EW001571	EW001572	EW001573	EW001574	EW001575	EW001576
	EW001577	EW001578	EW001579	EW001580	EW001608	EW001644	EW001645	EW001648
	EW001651	EW001652	EW001653	EW001654	EW001657	EW001659	EW001660	EW001662
	EW001738	EW001751	EW001757	EW001762	EW001765	EW001789	EW001827	EW001829
	EW001833	EW001834	EW001843	EW001868	EW001869	EW001870	EW001871	EW001873
	EW001874	EW001875	EW001876	EW001877	EW001878	EW001879	EW001880	EW001881
	EW001882	EW001905	EW001966	EW001973	EW002004	EW002005	EW002006	EW002007
	EW002011	EW002012	EW002014	EW002015	EW002016	EW002018	EW002021	EW002022
	EW002037	EW002040	EW002041	EW002042	EW002043	EW002044	EW002058	EW002074
	EW002169	EW002237	EW002375	EW002376	EW002377	EW002378	EW002379	EW002380
	EW002381	EW002386	EW002388	EW002404	EW002418	EW002419	EW002436	EW002447
	EW002453	EW002510	EW002564	EW002589	EW002592	EW002615	EW002619	EW002778
	EW002866	EW002880	EW002894	EW002909	EW002956	EW002960	EW002961	EW002962
	EW002966	EW002967	EW002976	EW002977	EW002978	EW002979	EW002980	EW002981
	EW002982	EW002983	EW002984	EW002985	EW002986	EW002987	EW002988	EW002989
	EW002990	EW002991	EW002992	EW002993	EW002994	EW002995	EW002996	EW002997
	EW002998	EW003000	EW003005	EW003006	EW003008	EW003009	EW003010	EW003011
	EW003012	EW003013	EW003051	EW003064	EW003065	EW003075	EW003076	EW003077
	EW003080	EW003081	EW003082	EW003083	EW003084	EW003085	EW003086	EW003087

	EW003088	EW003089	EW003090	EW003091	EW003092	EW003093	EW003095	EW00309
	EW003097	EW003098	EW003099	EW003100	EW003101	EW003118	EW003121	EW00312
	EW003123	EW003129	EW003137	EW003139	EW003140	EW003161	EW003162	EW00316
	EW003164	EW003166	EW003174	EW003175	EW003176	EW003177	EW003178	EW00317
	EW003182	EW003186	EW003187	EW003188	EW003203	EW003224	EW003226	EW00322
	EW003230	EW003233	EW003240	EW003244	EW003248	EW003250	EW003254	EW00325
	EW003260	EW003261	EW003262	EW003265	EW003266	EW003268	EW003269	EW00327
	EW003277	EW003283	EW003286	EW003287	EW003331	EW003332	EW003333	EW00333
	EW003445	EW003477	EW003480	EW003481	EW003483	EW003484	EW003493	EW00349
	EW003499	EW003500	EW003532	EW003536	EW003538	EW003539	EW003540	EW00354
	EW003553	EW003554	EW003556	EW003557	EW003559	EW003563	EW003570	EW00357
	EW003579	EW003584	EW003586	EW003690	EW003703	EW003712	EW003738	EW00374
	EW003745	EW003748	EW003752	EW003788	EW003789	EW003790	EW003792	EW00379
	EW003794	EW003795	EW003797	EW003798	EW003810	EW003821	EW003822	EW00382
	EW003831	EW003845	EW003887	EW003889	EW003919			
POST SECONDARY EDUCATION	(468)	EW000001	EW000002	EW000006	EW000013	EW000025	EW000026	EW00002
	EW000029	EW000030	EW000032	EW000034	EW000037	EW000110	EW000111	EW00011
	EW000117	EW000119	EW000120	EW000126	EW000127	EW000128	EW000164	EW00016
	EW000168	EW000175	EW000187	EW000188	EW000189	EW000191	EW000192	EW00019
	EW000196	EW000197	EW000193	EW000199	EW000200	EW000201	EW000202	EW00020
	EW000249	EW000410	EW000413	EW000416	EW000419	EW000442	EW000444	EW00004
	EW000512	EW000552	EW000553	EW000554	EW000558	EW000690	EW000692	EW00007
	EW000736	EW000737	EW000750	EW000780	EW000784	EW000794	EW000800	EW00008
	EW000804	EW000829	EW000831	EW000832	EW000833	EW000842	EW000854	EW00008
	EW000858	EW000861	EW000991	EW000995	EW000997	EW000998	EW000999	EW00010
	EW001001	EW001005	EW001023	EW001024	EW001025	EW001027	EW001033	EW00103
	EW001071	EW001085	EW001088	EW001092	EW001093	EW001111	EW001115	EW00111
	EW001118	EW001119	EW001205	EW001207	EW001209	EW001210	EW001212	EW00122
	EW001222	EW001223	EW001224	EW001225	EW001248	EW001249	EW001321	EW00132
	EW001340	EW001342	EW001411	EW001412	EW001412	EW001424	EW001471	EW00147
	EW001478	EW001479	EW001481	EW001482	EW001483	EW001484	EW001485	EW00148
	EW001487	EW001488	EW001489	EW001491	EW001494	EW001496	EW001497	EW00149
	EW001499	EW001500	EW001501	EW001502	EW001503	EW001632	EW001646	EW00164
	EW001649	EW001650	EW001655	EW001661	EW001703	EW001705	EW001714	EW00172
	EW001758	EW001759	EW001806	EW001810	EW001811	EW001828	EW001836	EW00184
	EW001867	EW001872	EW001883	EW001884	EW001885	EW001886	EW001887	EW00188
	EW001889	EW001890	EW001891	EW001892	EW001893	EW001894	EW001895	EW00189
	EW001897	EW001916	EW001917	EW001919	EW001920	EW001921	EW001922	EW00192
	EW001925	EW001947	EW001948	EW001949	EW001951	EW001952	EW001953	EW00195
	EW001955	EW001957	EW001961	EW001962	EW001963	EW001967	EW001968	EW00196
	EW001970	EW001971	EW001974	EW002000	EW002001	EW002002	EW002013	EW00201
	EW002023	EW002024	EW002035	EW002039	EW002046	EW002047	EW002056	EW00205
	EW002068	EW002069	EW002076	EW002077	EW002084	EW002088	EW002140	EW00218
	EW002239	EW002240	EW002241	EW002242	EW002243	EW002244	EW002245	EW00224
	EW002247	EW002248	EW002254	EW002266	EW002355	EW002382	EW002390	EW00240
	EW002413	EW002417	EW002421	EW002461	EW002587	EW002591	EW002617	EW00261
	EW002620	EW002621	EW002622	EW002624	EW002714	EW002772	EW002773	EW00277
	EW002776	EW002777	EW002780	EW002785	EW002786	EW002788	EW002789	EW00279
	EW002797	EW002798	EW002799	EW002800	EW002801	EW002802	EW002803	EW00280
	EW002805	EW002806	EW002807	EW002808	EW002811	EW002812	EW002813	EW00281
	EW002816	EW002818	EW002819	EW002822	EW002823	EW002826	EW002827	EW00283
	EW002836	EW002837	EW002838	EW002839	EW002841	EW002842	EW002847	EW00284
	EW002849	EW002850	EW002851	EW002853	EW002854	EW002855	EW002856	EW00285
	EW002859	EW002861	EW002862	EW002863	EW002867	EW002868	EW002869	EW00287
	EW002871	EW002873	EW002884	EW002887	EW002888	EW002889	EW002890	EW00289
	EW002892	EW002893	EW002896	EW002897	EW002898	EW002900	EW002916	EW00291
	EW002918	EW002919	EW002920	EW002921	EW002959	EW003002	EW003007	EW00300
	EW003073	EW003074	EW003078	EW003079	EW003094	EW003119	EW003120	EW00312
	EW003141	EW003142	EW003153	EW003170	EW003173	EW003195	EW003222	EW00322
	EW003231	EW003232	EW003238	EW003242	EW003249	EW003255	EW003259	EW00326
	EW003272	EW003274	EW003342	EW003362	EW003400	EW003401	EW003471	EW00349
	EW003537	EW003541	EW003568	EW003569	EW003571	EW003575	EW003578	EW00358
	EW003590	EW003591	EW003592	EW003593	EW003594	EW003595	EW003596	EW00359
	EW003598	EW003599	EW003600	EW003601	EW003602	EW003603	EW003604	EW00360
	EW003606	EW003607	EW003608	EW003609	EW003610	EW003611	EW003612	EW00361
	EW003614	EW003615	EW003616	EW003617	EW003618	EW003619	EW003620	EW00362
	EW003622	EW003623	EW003624	EW003625	EW003626	EW003627	EW003628	EW00362
	EW003630	EW003631	EW003632	EW003633	EW003634	EW003635	EW003636	EW00363
	EW003639	EW003639	EW003640	EW003641	EW003642	EW003643	EW003644	EW00364
	EW003646	EW003647	EW003648	EW003649	EW003650	EW003651	EW003652	EW00365
	EW003654	EW003655	EW003656	EW003657	EW003664	EW003691	EW003692	EW00369
	EW003701	EW003706	EW003707	EW003709	EW003729	EW003730	EW003736	EW00374
	EW003765	EW003767	EW003776	EW003777	EW003781	EW003786	EW003791	EW00381
	EW003836	EW003865	EW003890	EW003898	EW003900			
*POTABLE WATER	(3)	EW000012	EW000027	EW000034				
POTABLE WATER	(1)	EW003538						
*POTASSIUM PERMANGANATE	(1)	EW000059						
*POTENTIOMETERS	(1)	EW003803						
*POTOMAC RIVER	(1)	EW000194						
*POWERED LIFT TRUCKS	(2)	EW000267	EW000268					
POWER LINES	(1)	EW002848						
POWER MECHANICS	(1)	EW003463						
*POWER PLANTS	(1)	EW003167						
POWER PLANTS	(1)	EW000389						
PRACTICAL MATHEMATICS	(7)	EW000240	EW000242	EW000244	EW000245	EW000246	EW000247	EW000248
*PRECIPITATION	(1)	EW002380						
*PRESSURE	(6)	EW000262	EW000269	EW000270	EW000271	EW000272	EW000277	
PRESSURE	(4)	EW000276	EW000278	EW000279	EW000280			
PRESSURE SEWERS	(1)	EW003816						
*PRETREATMENT	(1)	EW002977						
PREVENTIVE MAINTENANCE	(1)	EW003075						
*PRIMARY EDUCATION	(1)	EW003306						
*PRIMARY GRADES	(2)	EW003364	EW003365					
*PRIMARY TREATMENT	(2)	EW000692	EW000855					
PRIMARY TREATMENT	(8)	EW000140	EW000141	EW000830	EW001033	EW001034	EW001085	EW001112
	EW002057							

*PROBABILITY	(1)	EW000550						
*PROBLEMS	(1)	EW003312						
PROBLEMS	(1)	EW003379						
*PROBLEM SOLVING	(2)	EW001209	EW003033					
PROBLEM SOLVING	(4)	EW000488	EW003195	EW003395	EW003402			
*PROCESS CONTROL	(2)	EW002017	EW002018					
PROCESS CONTROL	(1)	EW003051						
PROCESS EDUCATION	(1)	EW003316						
*PRODUCTION TECHNIQUES	(2)	EW003238	EW003239					
PRODUCTION TECHNIQUES	(1)	EW003251						
*PRODUCTIVITY	(1)	EW003826						
*PROFESSIONAL ASSOCIATIONS	(1)	EW003635						
PROFESSIONAL EDUCATION	(2)	EW003429	EW003919					
PROFESSIONAL OCCUPATIONS	(2)	EW003429	EW003447					
PROFESSIONAL PERSONNEL	(4)	EW003328	EW003381	EW003388	EW003442			
*PROFESSIONAL TRAINING	(1)	EW003501						
PROFESSIONAL TRAINING	(1)	EW003470						
*PROFILES OF PROMISE	(1)	EW003356						
*PROGRAM ADMINISTRATION	(1)	EW003659						
PROGRAM ADMINISTRATION	(1)	EW000609						
PROGRAM COSTS	(2)	EW000609	EW003314					
*PROGRAM DESCRIPTIONS	(20)	EW002184	EW002935	EW003300	EW003304	EW003348	EW003380	EW003426
	EW003449	EW003485	EW003486	EW003487	EW003488	EW003679	EW003690	EW003691
	EW003682	EW003686	EW003687	EW003688	EW003796			
PROGRAM DESCRIPTIONS	(9)	EW001302	EW003294	EW003409	EW003427	EW003659	EW003671	EW003683
	EW003684	EW003685						
PROGRAM DESIGN	(1)	EW003314						
*PROGRAM DEVELOPMENT	(2)	EW003021	EW003445					
PROGRAM DEVELOPMENT	(5)	EW000609	EW003294	EW003400	EW003418	EW003850		
*PROGRAMED INSTRUCTION	(3)	EW001250	EW003825	EW003921				
PROGRAMED INSTRUCTION	(9)	EW000957	EW001789	EW003308	EW003414	EW003754	EW003755	EW003756
	EW003757	EW003758						
PROGRAMED MATERIALS	(5)	EW003754	EW003755	EW003756	EW003757	EW003758		
PROGRAMED TEXTS	(2)	EW003308	EW003825					
PROGRAM EFFECTIVENESS	(2)	EW003323	EW003328					
*PROGRAM GUIDES	(2)	EW000609	EW003322					
PROGRAM GUIDES	(1)	EW003401						
*PROGRAMING	(1)	EW003395						
*PROGRAMING LANGUAGE	(1)	EW003741						
*PROGRAM OF TEACHER EDUCATION,FOR EN	(1)	EW003449						
*PROGRAM PLANNING	(3)	EW001425	EW002975	EW003850				
PROGRAM PLANNING	(1)	EW003314						
*PROGRAM PROPOSALS	(1)	EW003404						
PROJECT COAST	(2)	EW003285	EW003824					
PROJECTION EQUIPMENT	(1)	EW003490						
PROJECT MER	(1)	EW003360						
*PROJECT PLANNING	(1)	EW003032						
*PROJECTS	(1)	EW003403						
PROJECTS	(1)	EW003451						
PROJECT SOAR	(1)	EW003453						
PROPERTY ACCOUNTING	(1)	EW003850						
*PROTECTIVE CLOTHING	(6)	EW002814	EW002815	EW002839	EW002840	EW002855	EW002856	
*PROTECTIVE COATINGS	(3)	EW000074	EW000075	EW000127				
*PROTECTIVE EQUIPMENT	(2)	EW002814	EW002815					
PROTECTIVE EQUIPMENT	(2)	EW002801	EW002802					
PUBLC HEALTH	(1)	EW003191						
*PUBLIC AFFAIRS EDUCATION	(1)	EW003466						
PUBLIC AFFAIRS EDUCATION	(1)	EW003340						
*PUBLICATIONS	(1)	EW003582						
PUBLICATIONS	(1)	EW003428						
*PUBLIC BEACHES	(1)	EW001812						
PUBLIC FACILITIES	(1)	EW003317						
*PUBLIC HEALTH	(41)	EW000851	EW000857	EW000872	EW000982	EW001275	EW002591	EW002911
	EW002912	EW002926	EW002935	EW002964	EW002965	EW003032	EW003034	EW003056
	EW003659	EW003060	EW003065	EW003154	EW003193	EW003209	EW003210	EW003257
	EW003428	EW003448	EW003452	EW003476	EW003545	EW003547	EW003558	EW003569
	EW003580	EW003713	EW003731	EW003736	EW003737	EW003738	EW003748	EW003792
	EW003812	EW003819						

PUBLIC HEALTH	(136)	EW000117	EW000455	EW000836	EW000846	EW000870	EW000871	EW000890
	EW001039	EW001040	EW001043	EW001045	EW001387	EW001438	EW001456	EW002074
	EW002909	EW002925	EW002947	EW002950	EW002951	EW002953	EW002954	EW002955
	EW002966	EW002967	EW002969	EW002973	EW002999	EW003000	EW003002	EW003014
	EW003015	EW003016	EW003023	EW003024	EW003029	EW003030	EW003033	EW003047
	EW003058	EW003062	EW003063	EW003064	EW003067	EW003069	EW003102	EW003103
	EW003104	EW003130	EW003133	EW003137	EW003138	EW003155	EW003165	EW003166
	EW003169	EW003171	EW003172	EW003179	EW003182	EW003188	EW003189	EW003192
	EW003194	EW003196	EW003203	EW003206	EW003211	EW003221	EW003222	EW003223
	EW003225	EW003237	EW003239	EW003241	EW003248	EW003249	EW003252	EW003261
	EW003390	EW003406	EW003412	EW003433	EW003443	EW003449	EW003450	EW003461
	EW003462	EW003467	EW003477	EW003494	EW003495	EW003536	EW003538	EW003540
	EW003541	EW003548	EW003549	EW003550	EW003551	EW003554	EW003557	EW003561
	EW003563	EW003564	EW003565	EW003566	EW003568	EW003570	EW003576	EW003577
	EW003579	EW003662	EW003690	EW003691	EW003692	EW003710	EW003712	EW003719
	EW003729	EW003732	EW003735	EW003739	EW003780	EW003799	EW003800	EW003801
	EW003810	EW003813	EW003814	EW003831	EW003888	EW003894	EW003897	EW003898
	EW003899							
*PUBLIC OPINION	(1)	EW003404						
PUBLIC PARTICIPATION	(1)	EW001083						
*PUBLIC PARTICIPATION	(3)	EW000416	EW000812	EW002046				
*PUBLIC POLICY	(3)	EW001092	EW003394	EW003474				
PUBLIC POLICY	(4)	EW003337	EW003725	EW003847	EW003922			
*PUBLIC RELATIONS	(4)	EW000106	EW001468	EW003080	EW003317			
PUBLIC RELATIONS	(1)	EW003356						
PUBLIC SPEAKING	(1)	EW003317						
*PUBLIC SUPPORT	(1)	EW003317						
PUBLIC SUPPORT	(2)	EW003213	EW003314					
*PUBLIC TELEVISION	(1)	EW003410						
*PUERTO RICO	(1)	EW003628						
*PUMP STATIONS	(1)	EW003726						
*PUMPS	(17)	EW000105	EW000252	EW000265	EW000271	EW000272	EW000530	EW001648
	EW001839	EW001875	EW001876	EW001880	EW001883	EW002378	EW002419	EW003013
	EW003787	EW003823						
PUMPS	(5)	EW000141	EW000512	EW000517	EW002896	EW003147		
PUMP STATIONS	(1)	EW003704						
*PYROLYSIS	(1)	EW003037						
QUALIFICATIONS	(1)	EW003388						
QUALITY	(1)	EW003738						
*QUALITY CONTROL	(12)	EW001209	EW001632	EW003027	EW003061	EW003337	EW003387	EW003403
	EW003411	EW003660	EW003665	EW003723	EW003748			
QUALITY CONTROL	(10)	EW003226	EW003227	EW003318	EW003360	EW003374	EW003392	EW003416
	EW003495	EW003662	EW003888					
*QUESTION ANSWER INTERVIEWS	(1)	EW003416						
QUESTIONING TECHNIQUES	(1)	EW003355						
QUESTIONNAIRES	(3)	EW003328	EW003447	EW003455				
*QUICKLIME	(1)	EW000043						
RADAR	(1)	EW003750						
*RADIATION	(4)	EW003016	EW003240	EW003363	EW003686			
RADIATION	(82)	EW002774	EW003231	EW003232	EW003258	EW003462	EW003589	EW003590
	EW003591	EW003592	EW003593	EW003594	EW003595	EW003596	EW003597	EW003598
	EW003599	EW003600	EW003601	EW003602	EW003603	EW003604	EW003605	EW003606
	EW003607	EW003608	EW003609	EW003610	EW003611	EW003612	EW003613	EW003614
	EW003615	EW003616	EW003617	EW003618	EW003619	EW003620	EW003621	EW003622
	EW003623	EW003624	EW003625	EW003626	EW003627	EW003628	EW003629	EW003630
	EW003631	EW003632	EW003633	EW003634	EW003635	EW003636	EW003637	EW003638
	EW003639	EW003640	EW003641	EW003642	EW003643	EW003644	EW003645	EW003646
	EW003647	EW003648	EW003649	EW003650	EW003651	EW003652	EW003653	EW003654
	EW003655	EW003656	EW003657	EW003658	EW003679	EW003681	EW003685	EW003688
	EW003723	EW003743	EW003745					
RADIATION BIOLOGY	(1)	EW003686						
*RADIATION EFFECTS	(1)	EW003030						
RADIATION EFFECTS	(2)	EW003363	EW003727					
*RADIOACTIVITY	(2)	EW003038	EW003543					
RADIOACTIVITY	(4)	EW003036	EW003584	EW003586	EW003715			
RADIOCHEMISTRY	(1)	EW002931						
*RADIOLOGY	(1)	EW003249						
RADIOLOGY	(1)	EW003248						
*RADIONUCLIDES	(1)	EW003030						
RADIO TECHNOLOGY	(1)	EW003768						
*RADIUM	(1)	EW002912						
RADIUM	(1)	EW003240						
RATE POLICIES	(1)	EW003362						
*RATIOS (MATHEMATICAL)	(1)	EW000244						
*RATS	(1)	EW003893						
READING MATERIALS	(1)	EW003364						
*REAL ESTATE	(1)	EW003004						
REAL ESTATE	(1)	EW003309						
*REAMERS	(3)	EW001873	EW001874	EW001884				

RECOMMENDATIONS	(8)	EW001496	EW001497	EW001498	EW001499	EW001500	EW001501	EW001502
	EW001503							
RECORD KEEPING	(1)	EW000140						
RECORDKEEPING	(1)	EW003106						
RECORDS	(4)	EW000030	EW000038	EW000124	EW000510			
RECORDS	(2)	EW000552	EW002419					
RECREATION	(1)	EW003419						
RECREATION	(3)	EW003353	EW003468	EW003740				
RECREATIONAL WATERS	(1)	EW001812						
RECREATION LEGISLATION	(1)	EW003847						
RECRUITMENT	(2)	EW003442	EW003445					
*RECYCLING	(34)	EW000573	EW000993	EW001667	EW001947	EW001951	EW001953	EW002076
	EW002284	EW002140	EW002241	EW002242	EW002244	EW002248	EW002259	EW002266
	EW002950	EW003016	EW003034	EW003048	EW003165	EW003189	EW003190	EW003191
	EW003219	EW003237	EW003276	EW003283	EW003362	EW003461	EW003536	EW003567
	EW003581	EW003732	EW003905					
RECYCLING	(36)	EW000549	EW001115	EW002239	EW002240	EW002243	EW002245	EW002246
	EW002247	EW002947	EW002969	EW002973	EW002974	EW003020	EW003060	EW003064
	EW003192	EW003197	EW003198	EW003209	EW003210	EW003211	EW003230	EW003250
	EW003458	EW003459	EW003484	EW003500	EW003563	EW003566	EW003585	EW003708
	EW003712	EW003794	EW003800	EW003806	EW003815			
*REFERENCE BOOKS	(3)	EW002906	EW003670	EW003786				
REFERENCE BOOKS	(1)	EW002943						
*REFERENCE MATERIALS	(10)	EW003056	EW003377	EW003385	EW003417	EW003463	EW003544	EW003588
	EW003731	EW003732	EW003735					
REFERENCE MATERIALS	(19)	EW001096	EW002404	EW002906	EW002962	EW003071	EW003132	EW003138
	EW003139	EW003299	EW003405	EW003412	EW003426	EW003443	EW003489	EW003533
	EW003582	EW003730	EW003743	EW003760				
*REFRESHER COURSES	(1)	EW000297						
REFRIGERATION	(1)	EW003343						
REGIONAL CHARACTERISTICS	(1)	EW003534						
*REGIONAL PLANNING	(1)	EW002039						
REGIONAL PLANNING	(4)	EW003260	EW003394	EW003440	EW003468			
*REGULATIONS	(29)	EW000025	EW000040	EW000085	EW000087	EW000095	EW000096	EW000097
	EW000098	EW000099	EW000100	EW000118	EW000830	EW001092	EW001163	EW001661
	EW002024	EW002035	EW002039	EW002254	EW002386	EW002421	EW002614	EW002621
	EW002398	EW003384	EW003404	EW003578	EW003809	EW003858		
REGULATIONS	(61)	EW000039	EW000041	EW000043	EW000045	EW000046	EW000048	EW000049
	EW000050	EW000051	EW000052	EW000054	EW000055	EW000056	EW000058	EW000059
	EW000060	EW000061	EW000062	EW000063	EW000064	EW000065	EW000068	EW000069
	EW000070	EW000071	EW000072	EW000073	EW000075	EW000077	EW000078	EW000079
	EW000080	EW000081	EW000082	EW000084	EW000086	EW000088	EW000089	EW000090
	EW000091	EW000092	EW000093	EW000094	EW000101	EW000102	EW000103	EW000104
	EW000105	EW000188	EW000396	EW000829	EW001000	EW001083	EW001917	EW001955
	EW001957	EW002023	EW002042	EW002390	EW002617	EW003854		
*REMOTE SENSING	(2)	EW003217	EW003750					
*REPORTS	(7)	EW002023	EW003100	EW003101	EW003217	EW003392	EW003403	EW003567
REPORTS	(4)	EW002024	EW003381	EW003416	EW003462			
*REPORT WRITING	(1)	EW000632						
*RESEARCH	(39)	EW000854	EW001974	EW002912	EW002930	EW002942	EW002950	EW002952
	EW002954	EW002969	EW002973	EW003067	EW003102	EW003169	EW003171	EW003172
	EW003198	EW003212	EW003215	EW003245	EW003248	EW003249	EW003267	EW003301
	EW003338	EW003440	EW003478	EW003545	EW003563	EW003564	EW003566	EW003585
	EW003766	EW003733	EW003740	EW003796	EW003799	EW003800	EW003807	EW003830
RESEARCH	(42)	EW001919	EW002376	EW002970	EW002971	EW002972	EW003058	EW003061
	EW003063	EW003105	EW003126	EW003190	EW003219	EW003237	EW003293	EW003294
	EW003313	EW003316	EW003379	EW003399	EW003439	EW003464	EW003494	EW003537
	EW003542	EW003547	EW003565	EW003568	EW003580	EW003689	EW003693	EW003739
	EW003745	EW003750	EW003785	EW003811	EW003812	EW003813	EW003814	EW003815
	EW003816	EW003819	EW003840					
RESEARCH DESIGN	(3)	EW003383	EW003433	EW003742				
*RESEARCHERS	(1)	EW003587						
*RESEARCH METHODOLOGY	(5)	EW002948	EW002972	EW003267	EW003434	EW003741		
RESEARCH METHODOLOGY	(6)	EW002970	EW002971	EW003391	EW003407	EW003436	EW003742	
*RESEARCH NEEDS	(2)	EW003419	EW003526					
*RESEARCH PROJECTS	(1)	EW003373						
RESEARCH PROJECTS	(1)	EW003329						
*RESEARCH REPORTS	(2)	EW002941	EW002944					
RESEARCH REPORTS	(7)	EW002932	EW002946	EW002953	EW003301	EW003338	EW003459	EW003466
*RESEARCH REVIEWS	(1)	EW002930						
RESEARCH REVIEWS	(2)	EW002932	EW003830					
RESERVOIRS	(1)	EW000013						
*RESERVOIRS	(1)	EW000995						

RESIDENTIAL PATTERNS	(1)	EW003740
RESIDUAL PESTICIDES	(1)	EW003902
*RESIDUES	(2)	EW003862 EW003902
RESIDUES	(4)	EW003863 EW003864 EW003865 EW003866
RESOURCE ALLOCATIONS	(2)	EW003415 EW003722
RESOURCE GUIDES	(2)	EW003463 EW003587
*RESOURCE MANAGEMENT	(2)	EW002058 EW002884
*RESOURCE MATERIALS	(6)	EW001276 EW003071 EW003325 EW003826 EW003849 EW003850
RESOURCE MATERIALS	(15)	EW001085 EW001302 EW003355 EW003360 EW003363 EW003367 EW003370 EW003396 EW003397 EW003407 EW003459 EW003543 EW003588 EW003778 EW003847
*RESOURCE RECOVERY	(16)	EW002240 EW002241 EW002242 EW002243 EW002244 EW002245 EW002246 EW002247 EW002248 EW002259
RESOURCE RECOVERY	(1)	EW002239
*RESOURCES	(2)	EW001811 EW003751
RESOURCES	(5)	EW003377 EW003457 EW003468 EW003504 EW003858
RESOURCE UNITS	(2)	EW003458 EW003762
RESPONSIBILITY	(1)	EW003409
REVENUE SHARING	(1)	EW003844
REVERSE OSMOSIS	(1)	EW003038
*RHODE ISLAND	(3)	EW003289 EW003290 EW003629
RHODE ISLAND	(1)	EW003420
*RIGGING	(1)	EW001905
*RIVERS	(13)	EW000165 EW000187 EW000188 EW000189 EW000190 EW000425 EW000730 EW000801 EW000991 EW000999 EW001691 EW001810 EW003434
RIVERS	(2)	EW000558 EW003542
*RODENTICIDES	(1)	EW003893
RODENTICIDES	(2)	EW003358 EW003363
ROLE PLAYING	(1)	EW003470
*ROTATING BIOLOGICAL SURFACE SYSTEMS	(3)	EW002985 EW002986 EW002987
*ROTATING MACHINERY	(1)	EW000533
*RUBBER GASKET JOINTS	(1)	EW000068
*RUBBER INDUSTRY	(1)	EW002402
*RUNOFF WATERS	(1)	EW003782
*RURAL AREAS	(2)	EW000834 EW002453
RURAL AREAS	(4)	EW003301 EW003323 EW003439 EW003529
*RURAL DEVELOPMENT	(2)	EW002619 EW003844
RURAL DEVELOPMENT	(1)	EW002453
*RURAL ENVIRONMENT	(2)	EW001096 EW002777
RURAL ENVIRONMENT	(2)	EW002619 EW003035
*RURAL FARM RESIDENTS	(1)	EW003323
RURAL URBAN DIFFERENCES	(2)	EW001041 EW002964
*SAFE DRINKING WATER ACT	(1)	EW003558
*SAFETY	(175)	EW000024 EW000025 EW000037 EW000110 EW000116 EW000235 EW000238 EW000273 EW000292 EW000297 EW000298 EW000299 EW000300 EW000301 EW000302 EW000303 EW000304 EW000305 EW000306 EW000307 EW000308 EW000309 EW000312 EW000313 EW000314 EW000315 EW000316 EW000317 EW000318 EW000319 EW000320 EW000321 EW000322 EW000323 EW000324 EW000367 EW000391 EW000392 EW000393 EW000394 EW000395 EW000396 EW000397 EW000398 EW000419 EW000472 EW000532 EW000543 EW000552 EW000553 EW000554 EW000851 EW000867 EW000962 EW000964 EW000965 EW000967 EW000968 EW000969 EW000970 EW000971 EW000973 EW000975 EW000980 EW000981 EW000982 EW000983 EW001342 EW001409 EW001464 EW001467 EW001469 EW001470 EW001471 EW001475 EW001478 EW001479 EW001481 EW001482 EW001483 EW001484 EW001485 EW001486 EW001487 EW001488 EW001489 EW001491 EW001494 EW001510 EW001561 EW001905 EW002006 EW002007 EW002418 EW002785 EW002786 EW002787 EW002788 EW002789 EW002790 EW002791 EW002796 EW002797 EW002798 EW002799 EW002800 EW002801 EW002802 EW002803 EW002805 EW002806 EW002807 EW002808 EW002811 EW002812 EW002813 EW002814 EW002815 EW002816 EW002817 EW002818 EW002819 EW002822 EW002823 EW002826 EW002827 EW002830 EW002836 EW002836 EW002837 EW002838 EW002839 EW002840 EW002841 EW002842 EW002845 EW002847 EW002848 EW002849 EW002850 EW002851 EW002853 EW002854 EW002855 EW002856 EW002857 EW002859 EW002861 EW002862 EW002863 EW002866 EW002867 EW002868 EW002869 EW002870 EW002871 EW003066 EW003077 EW003082 EW003125 EW003277 EW003363 EW003428 EW003532 EW003730 EW003735 EW003623 EW003827 EW003862 EW003863 EW003864 EW003865 EW003866 EW003890 EW003899
SAFETY	(49)	EW000141 EW000261 EW000267 EW000268 EW000277 EW000279 EW000455 EW000470 EW000471 EW000922 EW001456 EW001496 EW001497 EW001498 EW001499 EW001500 EW001501 EW001502 EW001893 EW002386 EW002419 EW002774 EW003108 EW003109 EW003110 EW003111 EW003112 EW003113 EW003114 EW003140 EW003141 EW003142 EW003143 EW003146 EW003147 EW003149 EW003153 EW003179 EW003240 EW003263 EW003422 EW003480 EW003541 EW003726 EW003766 EW003780 EW003845 EW003889 EW003921
*SAFETY COMMITTEE	(1)	EW002868
*SAFETY EDUCATION	(4)	EW000212 EW000294 EW000295 EW000296
SAFETY EDUCATION	(2)	EW003384 EW003760
SAFETY EQUIPMENT	(1)	EW000212
*SAFETY RULES	(2)	EW002867 EW002869
*SAFETY SHOES	(2)	EW002815 EW002839

*SALINITY	(1)	EW001042						
*SALT	(1)	EW000641						
*SALT WATER INTRUSION	(1)	EW003132						
*SAMPLING	(11)	EW000004	EW000888	EW001471	EW002021	EW002957	EW002958	EW003000
	EW003014	EW003236	EW003264	EW003436				
SAMPLING	(10)	EW000889	EW001036	EW001631	EW001632	EW002939	EW003024	EW003143
	EW003144	EW003233	EW003272					
*SAMPLING TECHNIQUES	(1)	EW002911						
*SAND	(1)	EW000040						
SAN FRANCISCO BAY	(1)	EW003360						
*SAN FRANCISCO BAY AREA	(1)	EW003415						
*SANITARY FACILITIES	(2)	EW003116	EW003536					
SANITARY FACILITIES	(2)	EW003343	EW003787					
*SANITARY SEWERS	(1)	EW003032						
SANITARY SEWERS	(1)	EW000124						
*SANITATION	(40)	EW000840	EW001039	EW001041	EW001043	EW001112	EW002381	EW002777
	EW002909	EW002945	EW002947	EW002966	EW003007	EW003020	EW003032	EW003035
	EW003052	EW003070	EW003130	EW003133	EW003137	EW003139	EW003182	EW003191
	EW003203	EW003241	EW003242	EW003257	EW003390	EW003427	EW003450	EW003476
	EW003496	EW003497	EW003500	EW003504	EW003508	EW003531	EW003538	EW003540
	EW003541							
SANITATION	(70)	EW000846	EW000872	EW000890	EW001045	EW001438	EW002714	EW002911
	EW002925	EW002926	EW002942	EW002943	EW002955	EW002969	EW002973	EW003000
	EW003019	EW003023	EW003034	EW003054	EW003058	EW003064	EW003135	EW003136
	EW003170	EW003193	EW003197	EW003209	EW003210	EW003211	EW003215	EW003216
	EW003221	EW003239	EW003415	EW003448	EW003449	EW003452	EW003494	EW003505
	EW003506	EW003507	EW003509	EW003510	EW003511	EW003512	EW003513	EW003514
	EW003515	EW003516	EW003517	EW003518	EW003519	EW003520	EW003521	EW003522
	EW003523	EW003524	EW003525	EW003548	EW003549	EW003580	EW003703	EW003712
	EW003811	EW003812	EW003813	EW003814	EW003815	EW003816	EW003849	
*SANITATION IMPROVEMENT	(6)	EW003116	EW003448	EW003452	EW003498	EW003499	EW003531	
SANITATION IMPROVEMENT	(3)	EW003106	EW003414	EW003427				
*SANTA BARBARA	(1)	EW002056						
*SCAFFOLDS	(1)	EW000273						
*SCHOLARLY JOURNALS	(1)	EW001974						
SCHOLARSHIPS	(1)	EW003449						
*SCIENCE ACTIVITIES	(1)	EW003322						
SCIENCE ACTIVITIES	(6)	EW002957	EW003300	EW003430	EW003436	EW003441	EW003446	
SCIENCE CAREERS	(1)	EW003322						
SCIENCE COURSE IMPROVEMENT PROJECT	(2)	EW003325	EW003826					
*SCIENCE COURSES	(2)	EW003837	EW003839					
*SCIENCE CURRICULUM	(1)	EW003352						
*SCIENCE EDUCATION	(26)	EW000263	EW000264	EW001059	EW001060	EW001061	EW001062	EW001063
	EW001064	EW001065	EW002377	EW002404	EW003003	EW003231	EW003232	EW003310
	EW003321	EW003341	EW003681	EW003683	EW003688			
SCIENCE EDUCATION	(121)	EW000204	EW000466	EW000467	EW000539	EW000540	EW000541	EW000542
	EW000544	EW000556	EW000786	EW001039	EW001258	EW001275	EW001276	EW001396
	EW001422	EW001658	EW001762	EW001832	EW002021	EW002040	EW002044	EW002375
	EW002381	EW002957	EW003007	EW003009	EW003011	EW003021	EW003070	EW003104
	EW003115	EW003120	EW003151	EW003157	EW003158	EW003159	EW003160	EW003161
	EW003163	EW003216	EW003220	EW003226	EW003227	EW003289	EW003290	EW003296
	EW003297	EW003306	EW003313	EW003320	EW003322	EW003324	EW003325	EW003336
	EW003338	EW003339	EW003340	EW003346	EW003347	EW003349	EW003352	EW003354
	EW003397	EW003453	EW003454	EW003458	EW003465	EW003485	EW003486	EW003487
	EW003488	EW003492	EW003503	EW003511	EW003516	EW003517	EW003518	EW003519
	EW003520	EW003521	EW003522	EW003523	EW003524	EW003525	EW003527	EW003528
	EW003529	EW003530	EW003587	EW003661	EW003669	EW003674	EW003675	EW003676
	EW003677	EW003679	EW003680	EW003682	EW003684	EW003685	EW003686	EW003687
	EW003718	EW003742	EW003789	EW003790	EW003791	EW003792	EW003826	EW003831
	EW003833	EW003836	EW003837	EW003839	EW003891	EW003892	EW003893	EW003919
	EW003920	EW003920						
SCIENCE EQUIPMENT	(3)	EW000413	EW001063	EW001762				
*SCIENCE EXPERIMENTS	(1)	EW000488						
SCIENCE INSTRUCTION	(1)	EW003308						
*SCIENCE MATERIALS	(2)	EW003290	EW003322					
SCIENCE MATERIALS	(1)	EW003310						
*SCIENCES	(9)	EW003217	EW003301	EW003338	EW003486	EW003680	EW003682	EW003684
	EW003686	EW003687						
SCIENCES	(11)	EW003152	EW003224	EW003472	EW003485	EW003487	EW003488	EW003681
	EW003683	EW003688	EW003751	EW003838				
*SCIENCE UNITS	(1)	EW003458						
SCIENCE UNITS	(1)	EW003837						
*SCIENTIFIC CONCEPTS	(1)	EW001244						
*SCIENTIFIC ENTERPRISE	(1)	EW003345						
SCIENTIFIC EQUIPMENT	(1)	EW001448						
*SCIENTIFIC METHODOLOGY	(1)	EW001412						
*SCIENTIFIC PERSONNEL	(1)	EW003429						
SCIENTIFIC PERSONNEL	(1)	EW003742						
SCIENTIFIC PRINCIPLES	(2)	EW001244	EW003413					

*SCIENTIFIC RESEARCH	(15)	EW003062	EW003154	EW003220	EW003240	EW003259	EW003262	EW003265
	EW003268	EW003269	EW003499	EW003587	EW003731	EW003741	EW003742	EW003751
SCIENTIFIC RESEARCH	(5)	EW002564	EW003027	EW003315	EW003464	EW003498		
*SCIENTISTS	(1)	EW003742						
SCIENTISTS	(2)	EW003587	EW003741					
*SCRIPTS	(1)	EW003291						
*SCRUBBING SYSTEMS	(1)	EW003566						
SEAFOOD	(1)	EW003696						
*SEALS	(3)	EW000252	EW001644	EW001647				
*SEAMEN	(1)	EW003763						
*SECONDARY EDUCATION	(15)	EW001836	EW003157	EW003158	EW003159	EW003160	EW003297	EW003302
	EW003303	EW003307	EW003326	EW003674	EW003675	EW003676	EW003677	EW003834
SECONDARY EDUCATION	(93)	EW000848	EW001832	EW002976	EW002977	EW002978	EW002979	EW002980
	EW002981	EW002982	EW002983	EW002984	EW002985	EW002986	EW002987	EW002988
	EW002989	EW002990	EW002991	EW002992	EW002993	EW002994	EW002995	EW002996
	EW002997	EW002998	EW003005	EW003006	EW003007	EW003008	EW003009	EW003010
	EW003011	EW003012	EW003013	EW003074	EW003075	EW003076	EW003077	EW003078
	EW003079	EW003080	EW003081	EW003082	EW003083	EW003084	EW003085	EW003086
	EW003087	EW003088	EW003089	EW003090	EW003091	EW003092	EW003093	EW003094
	EW003095	EW003096	EW003097	EW003098	EW003099	EW003101	EW003118	EW003119
	EW003120	EW003121	EW003122	EW003123	EW003243	EW003291	EW003292	EW003293
	EW003294	EW003298	EW003300	EW003305	EW003310	EW003316	EW003322	EW003325
	EW003341	EW003342	EW003355	EW003469	EW003760	EW003768	EW003769	EW003771
	EW003772	EW003773	EW003774	EW003775	EW003776	EW003826		
*SECONDARY GRADES	(5)	EW003285	EW003339	EW003350	EW003351	EW003374		
SECONDARY GRADES	(4)	EW003354	EW003371	EW003453	EW003824			
SECONDARY SCHOOL MATHEMATICS	(2)	EW003005	EW003006					
*SECONDARY SCHOOL SCIENCE	(11)	EW003300	EW003307	EW003310	EW003322	EW003346	EW003347	EW003421
	EW003436	EW003441	EW003824	EW003832				
SECONDARY SCHOOL SCIENCE	(8)	EW003010	EW003011	EW003012	EW003285	EW003325	EW003361	EW003446
	EW003826							
SECONDARY SCHOOL STUDENTS	(1)	EW003104						
*SECONDARY TREATMENT	(4)	EW000692	EW001260	EW001961	EW001962			
SECONDARY TREATMENT	(9)	EW000830	EW000855	EW001033	EW001034	EW001085	EW001112	EW001631
	EW002257	EW003698						
*SECTION 208 PROGRAM (EPA)	(1)	EW002948						
*SEDIMENTATION	(2)	EW000191	EW002978					
SEDIMENTATION	(9)	EW000006	EW000141	EW000690	EW000692	EW000829	EW000830	EW001920
	EW002889	EW002892						
SEDIMENTS	(1)	EW002934						
*SEEPAGE CONTROL	(1)	EW003223						
*SELF PACED INSTRUCTION	(22)	EW000295	EW000296	EW000299	EW000318	EW000319	EW000320	EW000321
	EW001020	EW001021	EW001023	EW001024	EW001025	EW001026	EW001027	EW001033
	EW001034	EW001321	EW001322	EW001838	EW001839	EW001840	EW001843	
SELF PACED INSTRUCTION	(20)	EW000294	EW000298	EW000302	EW000303	EW000304	EW000305	EW000306
	EW000307	EW000308	EW000309	EW000312	EW000313	EW000314	EW000315	EW000316
	EW000317	EW000322	EW000323	EW001022	EW001867			
SEMINARS	(1)	EW000188						
SENIOR HIGH SCHOOLS	(2)	EW003762	EW003778					
SEPARATION	(1)	EW002068						
*SEPTIC SYSTEMS	(2)	EW003540	EW003541					
*SEPTIC TANKS	(10)	EW002943	EW002945	EW003035	EW003054	EW003064	EW003692	EW003811
	EW003813	EW003814	EW003815					
*SEWAGE	(15)	EW000140	EW000830	EW000833	EW000885	EW001043	EW001045	EW001971
	EW002943	EW002945	EW003025	EW003054	EW003434	EW003452	EW003461	EW003731
SEWAGE	(6)	EW002169	EW002894	EW002941	EW002944	EW002946	EW003053	
*SEWAGE TREATMENT	(6)	EW003239	EW003331	EW003332	EW003333	EW003334	EW003752	
*SEWAGE WORKS	(2)	EW000112	EW000113					
*SEWERS	(15)	EW000118	EW000121	EW000517	EW001045	EW002619	EW002896	EW002955
	EW003077	EW003221	EW003234	EW003546	EW003691	EW003693	EW003701	EW003785
SEWERS	(3)	EW000831	EW003481	EW003812				
*SHAFTS	(1)	EW000209						
*SHEET METAL	(2)	EW001869	EW001881					
SHEET METAL WORK	(1)	EW003463						
*SHELLFISH	(1)	EW003696						
*SHOP	(1)	EW001881						
SIMULATED ENVIRONMENT	(2)	EW003373	EW003470					
*SIMULATIONS	(1)	EW001751						
SIMULATIONS	(1)	EW001948						
SITE SELECTION	(1)	EW003846						
*SKILL DEVELOPMENT	(1)	EW003292						
SKILL DEVELOPMENT	(9)	EW002916	EW002917	EW002918	EW002919	EW002920	EW002921	EW003326
	EW003471	EW003778						

SKILLED OCCUPATIONS	(1)	EW003761						
SKILL OBSOLESCENCE	(1)	EW003381						
*SLIDE RULES	(1)	EW000275						
*SLIDES	(17)	EW000142	EW000402	EW000403	EW000552	EW000553	EW000554	EW000563
	EW000690	EW000691	EW000692	EW000922	EW001409	EW001607	EW001757	EW001758
	EW002140	EW002830						
SLIDES	(23)	EW000549	EW000771	EW000852	EW000900	EW000902	EW000903	EW002056
	EW002836	EW002837	EW002838	EW002839	EW002841	EW002842	EW002847	EW002848
	EW002849	EW002850	EW002851	EW002853	EW002854	EW002855	EW002856	EW002857
*SLUDGE	(35)	EW000117	EW000126	EW000128	EW000185	EW000545	EW000546	EW000547
	EW001242	EW002069	EW002074	EW002076	EW002077	EW002941	EW002942	EW002946
	EW002951	EW003048	EW003053	EW003140	EW003142	EW003144	EW003173	EW003191
	EW003192	EW003214	EW003263	EW003503	EW003509	EW003567	EW003579	EW003703
	EW003707	EW003708	EW003731	EW003822				
SLUDGE	(13)	EW000140	EW000830	EW000855	EW000904	EW001260	EW001923	EW002889
	EW002896	EW003054	EW003481	EW003581	EW003697	EW003800		
SLUDGE CHARACTERISTICS	(1)	EW000008						
*SLUDGE DEWATERING	(1)	EW000128						
SLUDGE DEWATERING	(1)	EW000692						
*SLUDGE DIGESTION	(2)	EW000126	EW003141					
SLUDGE DIGESTION	(1)	EW003122						
*SLUDGE DISPOSAL	(1)	EW000549						
SLUDGE DISPOSAL	(1)	EW001607						
*SLUDGE STABILIZATION	(1)	EW000185						
SLUDGE TREATMENT	(3)	EW000141	EW002057	EW003016				
*SLUICE GATES	(1)	EW000086						
*SOCIAL FACTORS	(2)	EW003413	EW003420					
SOCIAL FACTORS	(1)	EW003373						
SOCIAL RESPONSIBILITY	(1)	EW003415						
*SOCIAL SCIENCES	(6)	EW003159	EW003160	EW003369	EW003676	EW003677	EW003716	
SOCIAL STUDIES	(4)	EW003285	EW003339	EW003341	EW003354			
*SOCIAL TRENDS	(1)	EW003744						
*SOCIOECONOMIC INFLUENCES	(1)	EW003376						
*SODA ASH	(1)	EW000042						
*SODIUM ALUMINATE	(1)	EW000051						
*SODIUM CHLORIDE	(1)	EW000041						
*SODIUM CHLORITE	(1)	EW000047						
*SODIUM FLORIDE	(1)	EW000060						
*SODIUM HEXAMETAPHOSPHATE	(1)	EW000055						
*SODIUM HYPOCHLORITE	(1)	EW000044						
*SODIUM SILICATE	(1)	EW000050						
*SODIUM SILICOFLUORIDE	(1)	EW000061						
*SOFTENING	(2)	EW000041	EW000042					
SOFTENING	(1)	EW000043						
*SOIL APPLICATION	(1)	EW003263						
SOIL APPLICATION	(3)	EW002022	EW002941	EW003700				
*SOIL CONSERVATION	(7)	EW003129	EW003336	EW003372	EW003441	EW003446	EW003451	EW003860
SOIL CONSERVATION	(9)	EW003312	EW003393	EW003409	EW003460	EW003463	EW003503	EW003716
	EW003727	EW003858						
SOIL CONSERV. SERVICE	(1)	EW003451						
SOIL INCORPORATION	(1)	EW003543						
*SOILS	(9)	EW002952	EW003064	EW003533	EW003782	EW003811	EW003813	EW003814
	EW003815	EW003896						
SOILS	(4)	EW001042	EW002951	EW003547	EW003816			
*SOIL SCIENCE	(10)	EW001258	EW003196	EW003342	EW003493	EW003503	EW003506	EW003507
	EW003519	EW003525	EW003728					
SOIL SCIENCE	(12)	EW003312	EW003336	EW003372	EW003441	EW003460	EW003477	EW003511
	EW003521	EW003523	EW003569	EW003570	EW003690			
*SOLIDIFICATION	(1)	EW003586						
SOLIDIFICATION	(1)	EW003854						
*SOLID WASTE MANAGEMENT	(2)	EW003020	EW003097					
*SOLID WASTES	(9)	EW000545	EW000546	EW000547	EW000549	EW002259	EW003052	EW003139
	EW003500	EW003687						
SOLID WASTES	(75)	EW003133	EW003198	EW003589	EW003590	EW003591	EW003592	EW003593
	EW003594	EW003595	EW003596	EW003597	EW003598	EW003599	EW003600	EW003601
	EW003602	EW003603	EW003604	EW003605	EW003606	EW003607	EW003608	EW003609
	EW003610	EW003611	EW003612	EW003613	EW003614	EW003615	EW003616	EW003617
	EW003618	EW003619	EW003620	EW003621	EW003622	EW003623	EW003624	EW003625
	EW003626	EW003627	EW003628	EW003629	EW003630	EW003631	EW003632	EW003633
	EW003634	EW003635	EW003636	EW003637	EW003638	EW003639	EW003640	EW003641
	EW003642	EW003643	EW003644	EW003645	EW003646	EW003647	EW003648	EW003649
	EW003650	EW003651	EW003652	EW003653	EW003654	EW003655	EW003656	EW003657
	EW003658	EW003679	EW003681	EW003688				
*SOLUTIONS (CHEMISTRY)	(1)	EW000408						

*SOURCE PROTECTION (WATER)	(1)	EW003212						
*SOUTH CAROLINA	(1)	EW003630						
*SOUTH DAKOTA	(1)	EW003631						
*SPACE SCIENCES	(1)	EW003313						
*SPECIAL HEALTH PROBLEMS	(1)	EW003532						
SPECIALISTS	(1)	EW003388						
SPECIALIZATION	(1)	EW003308						
*SPECTROMETRY	(1)	EW003258						
SPECTROMETRY	(1)	EW003807						
*SPECTROSCOPY	(2)	EW000538	EW001970					
*SPEECHES	(2)	EW003396	EW003727					
SPEECHES	(3)	EW003419	EW003445	EW003848				
*SPELLING	(1)	EW001053						
*SPILL PREVENTION	(1)	EW001456						
SPILLS	(1)	EW002037						
*SPILLWAYS	(2)	EW000033	EW000086					
*SPRAY IRRIGATION	(1)	EW000192						
*SQUARE ROOT	(1)	EW000247						
*STABILIZATION	(2)	EW003586	EW003854					
STABILIZATION LAGOONS	(3)	EW000141	EW000692	EW002976				
*STABILIZATION PONDS	(1)	EW000455						
STAFF IMPROVEMENT	(1)	EW001382						
*STANDARDS	(81)	EW000013	EW000039	EW000040	EW000041	EW000042	EW000043	EW000044
	EW000045	EW000046	EW000047	EW000048	EW000049	EW000050	EW000051	EW000052
	EW000054	EW000055	EW000056	EW000058	EW000059	EW000060	EW000061	EW000062
	EW000063	EW000064	EW000065	EW000066	EW000067	EW000068	EW000069	EW000070
	EW000071	EW000072	EW000073	EW000074	EW000075	EW000076	EW000077	EW000078
	EW000079	EW000080	EW000081	EW000082	EW000083	EW000084	EW000085	EW000086
	EW000087	EW000088	EW000089	EW000090	EW000091	EW000092	EW000093	EW000094
	EW000095	EW000096	EW000097	EW000098	EW000099	EW000100	EW000101	EW000102
	EW000103	EW000104	EW000105	EW000829	EW000830	EW000983	EW001276	EW001812
	EW003066	EW003101	EW003193	EW003264	EW003272	EW003405	EW003418	EW003448
	EW003699	EW003764						
STANDARDS	(12)	EW001161	EW001396	EW001697	EW001886	EW002774	EW003115	EW003234
	EW003337	EW003404	EW003726	EW003740	EW003782			
*STATE AGENCIES	(2)	EW002970	EW003848					
STATE AGENCIES	(2)	EW002971	EW002972					
STATE CURRICULUM GUIDES	(3)	EW003772	EW003773	EW003778				
STATE FEDERAL SUPPORT	(1)	EW003457						
STATE GOVERNMENT	(3)	EW003410	EW003844	EW003846				
STATE LAWS	(2)	EW002926	EW003725					
*STATE LEGISLATION	(71)	EW003058	EW003079	EW003589	EW003590	EW003591	EW003592	EW003593
	EW003594	EW003595	EW003596	EW003597	EW003598	EW003599	EW003600	EW003601
	EW003602	EW003603	EW003604	EW003605	EW003606	EW003607	EW003608	EW003609
	EW003610	EW003611	EW003612	EW003613	EW003614	EW003615	EW003616	EW003617
	EW003618	EW003619	EW003620	EW003621	EW003622	EW003623	EW003624	EW003625
	EW003626	EW003627	EW003628	EW003629	EW003630	EW003631	EW003632	EW003633
	EW003634	EW003635	EW003636	EW003637	EW003638	EW003639	EW003640	EW003641
	EW003642	EW003643	EW003644	EW003645	EW003646	EW003648	EW003649	EW003650
	EW003651	EW003652	EW003653	EW003654	EW003655	EW003656	EW003657	EW003846
STATE LEGISLATION	(5)	EW003082	EW003309	EW003520	EW003647	EW003725		
*STATE OF THE ART REVIEWS	(2)	EW001271	EW003129					
STATE OF THE ART REVIEWS	(4)	EW002906	EW003369	EW003376	EW003723			
STATE PLANS	(1)	EW000561						
STATE PROGRAMS	(1)	EW002965						
*STATE REGULATIONS	(3)	EW000829	EW000830	EW001812				
*STATE ROLE	(1)	EW001000						
STATE ROLE	(1)	EW003780						
STATE SURVEYS	(2)	EW002964	EW003447					
STATEWIDE PLANNING	(1)	EW003457						
*STATIC ELECTRICITY	(3)	EW000212	EW000312	EW000313				
*STATISTICAL ANALYSIS	(6)	EW000900	EW002041	EW003236	EW003702	EW003704	EW003742	
STATISTICAL ANALYSIS	(4)	EW000786	EW003200	EW003434	EW003741			
STATISTICAL DATA	(4)	EW002390	EW003391	EW003394	EW003439			
*STATISTICS	(9)	EW000550	EW000899	EW000900	EW001051	EW002823	EW003741	EW003751
	EW003793	EW003794						
*STEAM	(1)	EW000276						
*STEAM GENERATING SYSTEMS	(1)	EW001155						
*STEAM TRAPS	(9)	EW000277	EW000278	EW000279	EW000280	EW001887	EW001888	EW001889
	EW001890	EW001892						
*STEEL PIPES	(7)	EW000031	EW000072	EW000073	EW000074	EW000075	EW000076	EW000078
STEEL PIPES	(1)	EW000077						
*STEEL TANKS	(2)	EW000102	EW000104					
*STORMWATER	(2)	EW003200	EW003242					
STREAMS	(2)	EW000840	EW002389					

*STREAMS	(1)	EW000794						
STUDENT DEVELOPED MATERIALS	(1)	EW001831						
*STUDENT PARTICIPATION	(1)	EW003356						
*STUDENT PROJECTS	(4)	EW003300	EW003338	EW003386	EW003453			
*STUDENT RESEARCH	(1)	EW003436						
STUDENT RESEARCH	(1)	EW003338						
*STUDY GUIDES	(8)	EW003386	EW003754	EW003755	EW003756	EW003757	EW003758	EW003837
	EW003838							
STUDY GUIDES	(2)	EW003355	EW003384					
*SUBJECT INDEX TERMS	(2)	EW003385	EW003663					
*SUBPROFESSIONALS	(1)	EW003445						
SUBPROFESSIONALS	(2)	EW003388	EW003442					
SUBURBAN ENVIRONMENT	(1)	EW003035						
*SULFUR DIOXIDE	(3)	EW003564	EW003565	EW003566				
*SULFURIC ACID	(1)	EW001481						
*SUMMATIVE EVALUATION	(1)	EW003404						
*SUPERVISION	(25)	EW001128	EW001205	EW001207	EW001212	EW001221	EW001222	EW001223
	EW001224	EW001225	EW001229	EW001519	EW001608	EW001714	EW001721	EW001867
	EW002000	EW002001	EW002587	EW002588	EW002796	EW002804	EW002826	EW002827
	EW002863	EW003501						
SUPERVISION	(3)	EW000281	EW002798	EW003081				
*SUPERVISORS	(4)	EW000281	EW000297	EW001128	EW001229			
*SUPERVISORY TRAINING	(1)	EW003797						
*SUPPLEMENTARY TEXTBOOKS	(1)	EW003753						
*SURFACE RUNOFF	(2)	EW003200	EW003221					
SURFACE RUNOFF	(1)	EW002888						
*SURVEYS	(5)	EW000614	EW002942	EW002970	EW003701	EW003702		
SURVEYS	(8)	EW002969	EW003294	EW003329	EW003389	EW003455	EW003671	EW003684
	EW003687							
*SUSPENDED SOLIDS	(2)	EW000902	EW003556					
*SWIMMING POOLS	(1)	EW003448						
*SYMPOSIA	(21)	EW001035	EW001036	EW001919	EW001920	EW001921	EW001923	EW001924
	EW001925	EW001950	EW002239	EW002241	EW002242	EW002243	EW002244	EW002245
	EW002246	EW002247	EW002248	EW003027	EW003151	EW003543		
SYMPOSIA	(3)	EW001916	EW001922	EW002240				
*SYSTEMS ANALYSIS	(10)	EW001751	EW002057	EW002622	EW002884	EW002890	EW002891	EW002897
	EW003367	EW003368	EW003746					
SYSTEMS ANALYSIS	(4)	EW001925	EW003218	EW003337	EW003547			
*SYSTEMS APPROACH	(3)	EW003395	EW003402	EW003749				
SYSTEMS APPROACH	(1)	EW003414						
*TABLES (DATA)	(1)	EW003022						
TABLES (DATA)	(2)	EW003344	EW003751					
TABLES (STATISTICAL)	(3)	EW002823	EW003704	EW003705				
*TANK CARS	(2)	EW001471	EW001496					
*TANK CLEANING	(2)	EW000314	EW000315					
*TANK INSPECTION	(2)	EW000314	EW000315					
*TANKS	(9)	EW000102	EW000103	EW000104	EW000265	EW000314	EW000315	EW001491
	EW001494	EW001871						
TAPE RECORDERS	(1)	EW003490						
TAPE RECORDINGS	(1)	EW003393						
*TASK ANALYSIS	(3)	EW003293	EW003344	EW003391				
TASK ANALYSIS	(4)	EW003294	EW003414	EW003767	EW003777			
*TASK PERFORMANCE	(2)	EW003772	EW003773					
TASK PERFORMANCE	(2)	EW003767	EW003776					
TASTE	(1)	EW000013						
*TASTE	(1)	EW003067						
*TAXONOMY	(3)	EW000027	EW003220	EW003836				
*TEACHER DEVELOPED MATERIALS	(1)	EW003718						
TEACHER DEVELOPED MATERIALS	(2)	EW003346	EW003347					
*TEACHER EDUCATION	(3)	EW001829	EW003311	EW003449				
TEACHER EDUCATION	(1)	EW003316						
*TEACHER RECRUITMENT	(1)	EW003449						
TEACHER SHORTAGE	(1)	EW003449						
*TEACHER WORKSHOPS	(1)	EW003454						
*TEACHING GUIDES	(95)	EW000267	EW000294	EW000298	EW001789	EW001828	EW001832	EW002957
	EW002976	EW002977	EW002978	EW002979	EW002980	EW002981	EW002982	EW002983
	EW002984	EW002985	EW002986	EW002987	EW002988	EW002989	EW002990	EW002991
	EW002992	EW002993	EW002994	EW002995	EW002996	EW002997	EW002998	EW003005
	EW003006	EW003007	EW003008	EW003009	EW003010	EW003011	EW003012	EW003013
	EW003074	EW003075	EW003076	EW003077	EW003078	EW003079	EW003080	EW003081
	EW003082	EW003083	EW003084	EW003085	EW003086	EW003087	EW003088	EW003089

	EW003090	EW003091	EW003092	EW003093	EW003094	EW003095	EW003096	EW003097
	EW003098	EW003099	EW003100	EW003101	EW003158	EW003160	EW003164	EW003285
	EW003289	EW003297	EW003302	EW003326	EW003331	EW003332	EW003333	EW003334
	EW003341	EW003365	EW003374	EW003384	EW003431	EW003446	EW003460	EW003664
	EW003675	EW003677	EW003752	EW003754	EW003755	EW003756	EW003757	EW003758
TEACHING GUIDES	(21)	EW000304	EW000306	EW000308	EW000312	EW000314	EW000316	EW000318
	EW000320	EW000322	EW003226	EW003227	EW003351	EW003358	EW003454	EW003458
	EW003464	EW003465	EW003490	EW003718	EW003774	EW003824		
*TEACHING METHODS	(1)	EW003491						
TEACHING METHODS	(4)	EW002916	EW003355	EW003469	EW003765			
TEACHING PROCEDURES	(1)	EW003435						
*TEACHING TECHNIQUES	(1)	EW002861						
TEACHING TECHNIQUES	(3)	EW002804	EW003298	EW003359				
*TECHNICAL EDUCATION	(25)	EW000196	EW000197	EW000198	EW000204	EW000206	EW000211	EW000215
	EW000225	EW000226	EW000237	EW000257	EW000258	EW000259	EW000260	EW000609
	EW000904	EW002922	EW003161	EW003400	EW003401	EW003447	EW003455	EW003765
	EW003777	EW003845						
TECHNICAL EDUCATION	(51)	EW000199	EW000201	EW000203	EW000207	EW000208	EW000209	EW000210
	EW000213	EW000214	EW000216	EW000217	EW000218	EW000219	EW000220	EW000221
	EW000224	EW000227	EW000230	EW000231	EW000234	EW000235	EW000236	EW000238
	EW000239	EW000240	EW000241	EW000242	EW000244	EW000245	EW000246	EW000247
	EW000248	EW000249	EW000250	EW000251	EW000252	EW000253	EW003163	EW003291
	EW003292	EW003293	EW003308	EW003322	EW003331	EW003332	EW003333	EW003334
	EW003473	EW003730	EW003752	EW003763				
*TECHNICAL ILLUSTRATIONS	(1)	EW000213						
*TECHNICAL MATERIAL	(1)	EW003215						
TECHNICAL MATERIAL	(1)	EW002939						
*TECHNICAL MATHEMATICS	(11)	EW000239	EW000240	EW000241	EW000242	EW000243	EW000245	EW000246
	EW000247	EW000248	EW000442	EW001789				
TECHNICAL MATHEMATICS	(3)	EW000244	EW002043	EW003007				
*TECHNICAL OCCUPATIONS	(1)	EW003381						
TECHNICAL OCCUPATIONS	(6)	EW003108	EW003109	EW003140	EW003447	EW003763	EW003777	
*TECHNICAL REPORTS	(14)	EW002405	EW002447	EW003399	EW003462	EW003580	EW003695	EW003698
	EW003699	EW003704	EW003706	EW003710	EW003842	EW003864	EW003866	
TECHNICAL REPORTS	(24)	EW002591	EW002592	EW003027	EW003108	EW003110	EW003111	EW003112
	EW003113	EW003114	EW003137	EW003151	EW003152	EW003529	EW003693	EW003700
	EW003702	EW003703	EW003705	EW003707	EW003782	EW003817	EW003862	EW003863
	EW003865							
*TECHNICAL WRITING	(4)	EW000632	EW001055	EW001503	EW003798			
TECHNICAL WRITING	(2)	EW002023	EW002024					
*TECHNOLOGICAL ADVANCEMENT	(1)	EW003257						
TECHNOLOGICAL ADVANCEMENT	(2)	EW003329	EW003424					
*TECHNOLOGY	(49)	EW000854	EW000870	EW000871	EW001040	EW001044	EW002040	EW002041
	EW002377	EW002772	EW002775	EW002949	EW003048	EW003070	EW003192	EW003197
	EW003198	EW003223	EW003224	EW003228	EW003229	EW003230	EW003238	EW003283
	EW003313	EW003331	EW003332	EW003333	EW003334	EW003396	EW003461	EW003494
	EW003538	EW003539	EW003563	EW003564	EW003565	EW003566	EW003581	EW003689
	EW003690	EW003691	EW003693	EW003712	EW003745	EW003749	EW003750	EW003752
	EW003801	EW003802						
TECHNOLOGY	(45)	EW000836	EW000872	EW001085	EW002381	EW002564	EW003028	EW003032
	EW003165	EW003191	EW003196	EW003199	EW003241	EW003245	EW003251	EW003252
	EW003255	EW003256	EW003258	EW003286	EW003295	EW003352	EW003361	EW003372
	EW003380	EW003392	EW003395	EW003526	EW003535	EW003558	EW003567	EW003568
	EW003569	EW003570	EW003571	EW003575	EW003576	EW003577	EW003579	EW003580
	EW003692	EW003787	EW003807	EW003816	EW003844	EW003863		
TELEVISION	(2)	EW003410	EW003768					
TELEVISION SIMULATION	(1)	EW003410						
*TEMPERATURE	(7)	EW000282	EW000283	EW000284	EW001882	EW001886	EW001891	EW001897
TEMPERATURE	(2)	EW000276	EW003054					
*TENNESSEE	(1)	EW003632						
*TERMINOLOGY	(1)	EW000120						
*TERTIARY TREATMENT	(5)	EW000006	EW000577	EW000692	EW001001	EW001260		
TERTIARY TREATMENT	(4)	EW001085	EW001631	EW001661	EW002057			
TEST CONSTRUCTION	(1)	EW003328						
*TESTING	(3)	EW000278	EW000488	EW003405				
TESTING	(3)	EW003371	EW003387	EW003854				
TEST RELIABILITY	(3)	EW003382	EW003411	EW003759				
*TESTS	(3)	EW001087	EW003072	EW003073				
TEST VALIDITY	(3)	EW003382	EW003411	EW003759				
*TEXAS	(2)	EW003633	EW003848					
TEXAS	(1)	EW003419						
*TEXTBOOKS	(8)	EW000848	EW001247	EW001258	EW002880	EW002931	EW002933	EW002939
	EW003895							
TEXTBOOKS	(6)	EW001112	EW002940	EW003390	EW003489	EW003753	EW003839	
THE OREGON WAY	(1)	EW003760						
*THEORIES	(1)	EW003468						
THEORIES	(1)	EW003778						
*THERMAL ENVIRONMENT	(4)	EW002040	EW002592	EW003381	EW003405			

THERMAL ENVIRONMENT	(2)	EW003268	EW003727					
*THERMAL INSULATION	(3)	EW001653	EW001870	EW001871				
THERMAL POLLUTION	(1)	EW001424						
*THERMOCOUPLES	(1)	EW001891						
*THERMODYNAMICS	(3)	EW003026	EW003231	EW003232				
THERMODYNAMICS	(1)	EW003743						
*THERMOMETERS	(3)	EW000284	EW001882	EW001886				
*THERMOSTATS	(1)	EW001888						
*THESAURI	(3)	EW003385	EW003663	EW003841				
*TIDAL ZONES	(1)	EW001083						
*TITRATION	(3)	EW000285	EW000413	EW001059				
*TOILETS	(1)	EW002947						
*TOURISM	(1)	EW003476						
*TOXICITY	(7)	EW001969	EW002376	EW002932	EW003022	EW003247	EW003515	EW003713
TOXICITY	(8)	EW003024	EW003025	EW003191	EW003196	EW003233	EW003747	EW003896
	EW003898							
*TOXICOLOGY	(20)	EW001663	EW001967	EW001968	EW002413	EW002461	EW003041	EW003044
	EW003246	EW003428	EW003544	EW003669	EW003747	EW003788	EW003799	EW003862
	EW003863	EW003864	EW003865	EW003866	EW003901			
TOXICOLOGY	(8)	EW001963	EW001964	EW002928	EW003039	EW003040	EW003247	EW003584
	EW003748							
*TOXIC SUBSTANCES	(26)	EW002376	EW002382	EW002589	EW002932	EW003022	EW003036	EW003037
	EW003038	EW003039	EW003040	EW003041	EW003042	EW003043	EW003044	EW003047
	EW003172	EW003238	EW003377	EW003515	EW003586	EW003730	EW003780	EW003801
	EW003802	EW003854	EW003902					
TOXIC SUBSTANCES	(1)	EW003903						
*TOXIC WASTES	(1)	EW001071						
*TOXINS	(1)	EW003559						
*TRACE METALS	(1)	EW001917						
*TRADE AND INDUSTRIAL EDUCATION	(8)	EW003754	EW003755	EW003756	EW003757	EW003758	EW003772	EW003773
	EW003776							
TRADE AND INDUSTRIAL EDUCATION	(5)	EW003763	EW003767	EW003768	EW003777	EW003778		
*TRAINING	(8)	EW001205	EW001207	EW001224	EW003286	EW003287	EW003388	EW003440
	EW003796							
TRAINING	(1)	EW003328						
*TRAINING MANUALS	(1)	EW003726						
*TRAINING PROGRAMS	(1)	EW000561						
TRAINING TECHNIQUES	(2)	EW001382	EW003919					
TRANSFER OF TRAINING	(1)	EW003381						
TRANSISTORS	(1)	EW003768						
*TRANSPARENCIES	(31)	EW000367	EW000387	EW000389	EW000391	EW000392	EW000393	EW000394
	EW000395	EW000396	EW000397	EW000398	EW000400	EW000401	EW000404	EW000405
	EW000406	EW000408	EW001561	EW001566	EW001569	EW001570	EW001571	EW001572
	EW001573	EW001574	EW001575	EW001576	EW001577	EW001578	EW001579	EW001580
TRANSPARENCIES	(8)	EW003384	EW003393	EW003460	EW003754	EW003755	EW003756	EW003757
	EW003758							
*TRANSPORTATION	(9)	EW000971	EW000973	EW001497	EW001498	EW001499	EW001500	EW001501
	EW001502	EW003785						
TRANSPORTATION	(6)	EW002418	EW002775	EW003028	EW003468	EW003744	EW003844	
*TREES	(1)	EW003888						
TREND ANALYSIS	(1)	EW003105						
*TRICKLING FILTERS	(11)	EW000800	EW001971	EW002979	EW002980	EW002981	EW002985	EW002986
	EW002987	EW003206	EW003706	EW003822				
TRICKLING FILTERS	(4)	EW000141	EW000830	EW001088	EW003038			
*TRIGONOMETRY	(2)	EW000248	EW002043					
TRITIUM	(1)	EW003240						
*TROUBLESHOOTING	(2)	EW001843	EW001883					
TROUBLESHOOTING	(1)	EW002419						
*TURBIDITY	(2)	EW003099	EW003556					
TURBIDITY	(1)	EW001036						
*TURBINE PUMPS	(1)	EW000105						
*TURBINES	(1)	EW001650						
*TURF MANAGEMENT	(3)	EW003511	EW003517	EW003892				
TURF MANAGEMENT	(2)	EW003004	EW003503					
*UNDERGRADUATE STUDY	(2)	EW003301	EW003671					
*UNDERGROUND DISPOSAL	(3)	EW000780	EW002356	EW003037				
UNESCO	(1)	EW003296						
UNITED NATIONS	(1)	EW003335						
*UNITED NATIONS ENVIRONMENT PROGRAM	(1)	EW003673						
*UNITED STATES	(1)	EW002949						
*UNIT PLAN	(3)	EW003458	EW003762	EW003771				

UNIT PLAN	(5)	EW003341	EW003354	EW003359	EW003365	EW003460		
UNIT PROCESSES	(1)	EW003400						
*UNITS OF STUDY	(30)	EW002976	EW002977	EW002978	EW002979	EW002980	EW002981	EW002982
	EW002983	EW002984	EW002985	EW002986	EW002987	EW002988	EW002989	EW002990
	EW002991	EW002993	EW002994	EW002995	EW002996	EW002997	EW002998	EW003005
	EW003009	EW003012	EW003074	EW003075	EW003118	EW003120	EW003123	
UNITS OF STUDY	(38)	EW002992	EW003006	EW003008	EW003010	EW003011	EW003013	EW003076
	EW003077	EW003078	EW003079	EW003080	EW003081	EW003082	EW003083	EW003084
	EW003085	EW003086	EW003087	EW003088	EW003089	EW003090	EW003091	EW003092
	EW003093	EW003094	EW003095	EW003096	EW003097	EW003098	EW003099	EW003100
	EW003101	EW003119	EW003121	EW003122	EW003778	EW003824	EW003889	
*UNITS OF STUDY (SUBJECT FIELDS)	(4)	EW003303	EW003304	EW003306	EW003307			
UNITS OF STUDY (SUBJECT FIELDS)	(9)	EW003298	EW003305	EW003346	EW003347	EW003350	EW003351	EW003374
	EW003664	EW003774						
*UNIVERSITIES	(1)	EW003661						
UNIVERSITIES	(1)	EW003426						
*URBAN AREAS	(4)	EW000997	EW003244	EW003830	EW003842			
URBAN AREAS	(6)	EW000191	EW003312	EW003439	EW003474	EW003738	EW003745	
*URBAN ENVIRONMENT	(11)	EW001096	EW001703	EW003200	EW003221	EW003260	EW003312	EW003386
	EW003470	EW003474	EW003474	EW003546				
URBAN ENVIRONMENT	(6)	EW002910	EW003015	EW003201	EW003222	EW003369	EW003722	
*URBANIZATION	(3)	EW002968	EW003312	EW003394				
URBANIZATION	(1)	EW003361						
URBAN POPULATION	(1)	EW003383						
*URBAN PROBLEMS	(1)	EW000786						
URBAN RENEWAL	(1)	EW003844						
URBAN STUDIES	(3)	EW002954	EW003263	EW003847				
*USE STUDIES	(1)	EW003105						
*UTAH	(1)	EW003634						
*UTILITIES	(38)	EW000023	EW000106	EW000110	EW000118	EW000124	EW000389	EW000487
	EW000517	EW000532	EW000831	EW000835	EW000957	EW001111	EW001164	EW001387
	EW001396	EW002849	EW002954	EW003015	EW003034	EW003067	EW003108	EW003109
	EW003110	EW003111	EW003112	EW003113	EW003114	EW003115	EW003162	EW003167
	EW003206	EW003320	EW003343	EW003467	EW003529	EW003566	EW003777	
UTILITIES	(40)	EW000024	EW000139	EW000214	EW000486	EW000508	EW000857	EW002909
	EW002912	EW002935	EW002942	EW003016	EW003032	EW003048	EW003137	EW003140
	EW003141	EW003142	EW003152	EW003156	EW003170	EW003179	EW003189	EW003244
	EW003253	EW003330	EW003362	EW003455	EW003527	EW003528	EW003530	EW003539
	EW003546	EW003557	EW003690	EW003691	EW003692	EW003717	EW003726	EW003770
	EW003842							
VACUUM PUMPS	(1)	EW001883						
*VALUE ENGINEERING	(1)	EW003709						
*VALUES	(2)	EW001838	EW002873					
VALUES	(1)	EW001275						
*VALVES	(18)	EW000085	EW000089	EW000090	EW000265	EW000266	EW000286	EW000287
	EW000967	EW000968	EW000969	EW000970	EW001165	EW001648	EW002004	EW002005
	EW002015	EW002016	EW002237					
*VENTILATION	(1)	EW003066						
*VERMONT	(1)	EW003635						
*VERNIERS	(1)	EW000251						
*VIBRATION	(1)	EW001646						
VIDEO CASSETTES	(1)	EW002015						
VIDEO TAPE RECORDINGS	(2)	EW003393	EW003414					
VIDEO TAPES	(1)	EW002015						
*VIRGINIA	(1)	EW003636						
VIRGINIA	(1)	EW003342						
*VIRGIN ISLANDS	(1)	EW003637						
*VIRUSES	(2)	EW003023	EW003812					
*VISION	(2)	EW002819	EW002841					
*VISUAL AIDS	(32)	EW000135	EW000142	EW000367	EW000389	EW000391	EW000392	EW000393
	EW000394	EW000395	EW000396	EW000397	EW000398	EW000402	EW000405	EW000406
	EW000922	EW001561	EW001569	EW001570	EW001571	EW001572	EW001573	EW001574
	EW001575	EW001576	EW001577	EW001578	EW001579	EW001580	EW001757	EW001758
	EW002056							
VISUAL AIDS	(29)	EW000387	EW000400	EW000401	EW000403	EW000404	EW000408	EW000690
	EW000691	EW000692	EW001566	EW002830	EW002836	EW002837	EW002838	EW002839
	EW002840	EW002841	EW002842	EW002845	EW002847	EW002848	EW002849	EW002850
	EW002851	EW002853	EW002854	EW002855	EW002856	EW002857		
*VOCABULARY	(1)	EW000003						
VOCABULARY	(2)	EW003288	EW003663					
*VOCATIONAL AGRICULTURE	(5)	EW003363	EW003370	EW003463	EW003664	EW003774		
VOCATIONAL AGRICULTURE	(4)	EW003358	EW003456	EW003460	EW003825			
*VOCATIONAL DEVELOPMENT	(3)	EW003291	EW003294	EW003391				
VOCATIONAL DEVELOPMENT	(4)	EW001382	EW003292	EW003293	EW003469			
*VOCATIONAL EDUCATION	(2)	EW003298	EW003764					

VOCATIONAL EDUCATION	(17)	EW002922	EW003331	EW003332	EW003333	EW003334	EW003344	EW003391
	EW003400	EW003445	EW003685	EW003752	EW003761	EW003763	EW003769	EW003774
	EW003775	EW003776						
VOLTAGE	(1)	EW003778						
*WALL CHARTS	(1)	EW000980						
*WASHINGTON	(2)	EW001703	EW003638					
*WASTE COLLECTION	(1)	EW003242						
*WASTE DISPOSAL	(230)	EW000140	EW000141	EW000164	EW000188	EW000190	EW000192	EW000214
	EW000549	EW000558	EW000577	EW000780	EW000840	EW000855	EW000857	EW000861
	EW001001	EW001045	EW001071	EW001112	EW001112	EW001242	EW001382	EW001396
	EW001422	EW001438	EW001456	EW001607	EW001631	EW001660	EW001920	EW001921
	EW001923	EW001924	EW001947	EW001950	EW001951	EW001961	EW001962	EW001971
	EW002022	EW002074	EW002076	EW002077	EW002084	EW002239	EW002240	EW002244
	EW002247	EW002248	EW002259	EW002356	EW002447	EW002889	EW002909	EW002935
	EW002942	EW002945	EW002947	EW002950	EW002951	EW002953	EW002955	EW002969
	EW002973	EW003007	EW003016	EW003018	EW003019	EW003020	EW003023	EW003029
	EW003032	EW003035	EW003048	EW003056	EW003058	EW003060	EW003064	EW003065
	EW003071	EW003102	EW003108	EW003109	EW003110	EW003111	EW003113	EW003114
	EW003115	EW003124	EW003130	EW003133	EW003135	EW003136	EW003137	EW003140
	EW003141	EW003142	EW003157	EW003161	EW003162	EW003163	EW003169	EW003171
	EW003172	EW003189	EW003190	EW003191	EW003192	EW003195	EW003196	EW003197
	EW003198	EW003203	EW003206	EW003209	EW003210	EW003211	EW003212	EW003214
	EW003215	EW003219	EW003221	EW003222	EW003223	EW003230	EW003237	EW003238
	EW003239	EW003245	EW003251	EW003253	EW003260	EW003261	EW003283	EW003291
	EW003292	EW003293	EW003294	EW003331	EW003332	EW003333	EW003334	EW003335
	EW003461	EW003473	EW003476	EW003477	EW003484	EW003492	EW003494	EW003496
	EW003497	EW003500	EW003503	EW003504	EW003505	EW003506	EW003507	EW003508
	EW003509	EW003510	EW003511	EW003512	EW003513	EW003514	EW003515	EW003516
	EW003517	EW003518	EW003519	EW003520	EW003521	EW003522	EW003523	EW003524
	EW003525	EW003526	EW003527	EW003528	EW003529	EW003530	EW003531	EW003540
	EW003541	EW003546	EW003547	EW003548	EW003549	EW003550	EW003551	EW003552
	EW003556	EW003561	EW003567	EW003568	EW003569	EW003570	EW003571	EW003575
	EW003576	EW003577	EW003579	EW003581	EW003584	EW003585	EW003586	EW003676
	EW003687	EW003690	EW003691	EW003692	EW003693	EW003700	EW003708	EW003710
	EW003712	EW003731	EW003732	EW003752	EW003780	EW003802	EW003811	EW003812
	EW003813	EW003814	EW003815	EW003816	EW003842	EW003854	EW003899	
WASTE DISPOSAL	(119)	EW000124	EW000135	EW000139	EW000442	EW000443	EW000444	EW000525
	EW000553	EW000554	EW000690	EW000692	EW000736	EW000800	EW000885	EW000888
	EW000889	EW001043	EW001088	EW001094	EW001157	EW001260	EW001448	EW001657
	EW001661	EW001697	EW001738	EW001806	EW001916	EW001922	EW001948	EW001949
	EW001953	EW001954	EW001955	EW001957	EW002035	EW002069	EW002241	EW002242
	EW002243	EW002245	EW002246	EW002419	EW002613	EW002714	EW002780	EW002910
	EW002930	EW002948	EW002954	EW003034	EW003051	EW003069	EW003112	EW003117
	EW003125	EW003143	EW003144	EW003145	EW003149	EW003150	EW003158	EW003159
	EW003160	EW003165	EW003166	EW003175	EW003176	EW003177	EW003178	EW003193
	EW003194	EW003199	EW003213	EW003233	EW003250	EW003262	EW003276	EW003312
	EW003318	EW003330	EW003337	EW003343	EW003403	EW003454	EW003457	EW003458
	EW003469	EW003480	EW003487	EW003488	EW003501	EW003536	EW003538	EW003539
	EW003554	EW003557	EW003563	EW003564	EW003565	EW003663	EW003674	EW003675
	EW003677	EW003679	EW003681	EW003685	EW003688	EW003701	EW003703	EW003709
	EW003726	EW003730	EW003796	EW003817	EW003861	EW003920	EW003920	EW003921
*WASTE OILS	(1)	EW002084						
*WASTES	(13)	EW000120	EW001275	EW003138	EW003199	EW003299	EW003402	EW003504
	EW003507	EW003509	EW003521	EW003523	EW003697	EW003767		
WASTES	(38)	EW000903	EW003020	EW003035	EW003116	EW003139	EW003331	EW003332
	EW003333	EW003334	EW003350	EW003351	EW003354	EW003382	EW003396	EW003454
	EW003496	EW003497	EW003505	EW003506	EW003508	EW003510	EW003511	EW003512
	EW003513	EW003514	EW003515	EW003516	EW003517	EW003518	EW003519	EW003520
	EW003522	EW003524	EW003525	EW003723	EW003731	EW003752	EW003834	
*WASTE STABILIZATION PONDS	(2)	EW003056	EW003822					
*WASTEWATER	(3)	EW003496	EW003503	EW003509				
WASTEWATER	(1)	EW001810						
*WASTEWATER ANALYSIS	(1)	EW000004						
WASTEWATER CHARACTERISTICS	(1)	EW000140						
*WASTEWATER COLLECTION	(17)	EW000116	EW000118	EW000121	EW000830	EW000831	EW001043	EW002184
	EW002954	EW002958	EW003077	EW003221	EW003481	EW003693	EW003701	EW003702
	EW003704	EW003821						
WASTEWATER COLLECTION	(1)	EW003013						
*WASTEWATER DISPOSAL	(8)	EW000117	EW002460	EW003036	EW003039	EW003040	EW003041	EW003044
	EW003214							
WASTEWATER DISPOSAL	(6)	EW001157	EW002378	EW003037	EW003543	EW003586	EW003715	
WASTEWATER DISTRICTS	(2)	EW002615	EW003702					
*WASTEWATER EFFLUENTS	(6)	EW000192	EW002239	EW002240	EW002909	EW003696	EW003700	
*WASTEWATER MANAGEMENT DISTRICTS	(1)	EW003816						
WASTEWATER OPERATIONS	(1)	EW001438						
*WASTEWATER SLUDGE	(6)	EW000117	EW000128	EW002069	EW003053	EW003054	EW003703	
WASTEWATER SLUDGE	(5)	EW000126	EW000140	EW001961	EW001962	EW003173		
*WASTEWATER TREATMENT	(364)	EW000003	EW000045	EW000112	EW000113	EW000114	EW000115	EW000116
	EW000118	EW000119	EW000120	EW000121	EW000124	EW000126	EW000127	EW000128
	EW000135	EW000139	EW000140	EW000141	EW000164	EW000185	EW000192	EW000214
	EW000263	EW000442	EW000443	EW000444	EW000455	EW000466	EW000508	EW000511
	EW000517	EW000525	EW000543	EW000548	EW000549	EW000553	EW000554	EW000556
	EW000558	EW000561	EW000573	EW000575	EW000577	EW000609	EW000690	EW000691
	EW000692	EW000800	EW000830	EW000831	EW000833	EW000837	EW000844	EW000855
	EW000857	EW000858	EW000885	EW000890	EW000891	EW000901	EW000902	EW000904
	EW001001	EW001020	EW001021	EW001022	EW001023	EW001024	EW001025	EW001026
	EW001027	EW001032	EW001033	EW001034	EW001040	EW001043	EW001045	EW001085
	EW001094	EW001112	EW001112	EW001242	EW001260	EW001382	EW001387	EW001406
	EW001419	EW001438	EW001631	EW001660	EW001661	EW001697	EW001738	EW001765
	EW001806	EW001916	EW001921	EW001923	EW001947	EW001949	EW001953	EW001954
	EW001957	EW001961	EW001962	EW001971	EW002035	EW002057	EW002068	EW002069
	EW002074	EW002076	EW002184	EW002244	EW002245	EW002246	EW002378	EW002381
	EW002419	EW002453	EW002510	EW002889	EW002894	EW002896	EW002909	EW002916
	EW002917	EW002918	EW002919	EW002920	EW002921	EW002922	EW002925	EW002935
	EW002941	EW002942	EW002943	EW002944	EW002945	EW002946	EW002947	EW002950

	EW002953	EW002955	EW002959	EW002960	EW002961	EW002962	EW002966	EW002967
	EW002969	EW002970	EW002972	EW002973	EW002977	EW002978	EW002979	EW002980
	EW002981	EW002982	EW002983	EW002984	EW002985	EW002987	EW002998	EW003000
	EW003002	EW003005	EW003006	EW003007	EW003009	EW003010	EW003011	EW003012
	EW003013	EW003018	EW003032	EW003035	EW003038	EW003042	EW003043	EW003051
	EW003053	EW003056	EW003060	EW003062	EW003064	EW003065	EW003071	EW003074
	EW003075	EW003076	EW003078	EW003079	EW003080	EW003081	EW003084	EW003086
	EW003087	EW003100	EW003101	EW003102	EW003106	EW003117	EW003119	EW003120
	EW003122	EW003123	EW003130	EW003131	EW003132	EW003137	EW003140	EW003141
	EW003141	EW003142	EW003144	EW003153	EW003156	EW003161	EW003164	EW003165
	EW003166	EW003169	EW003171	EW003173	EW003175	EW003176	EW003177	EW003178
	EW003188	EW003190	EW003191	EW003195	EW003197	EW003203	EW003206	EW003209
	EW003211	EW003215	EW003216	EW003218	EW003222	EW003230	EW003234	EW003237
	EW003238	EW003243	EW003245	EW003250	EW003251	EW003253	EW003261	EW003262
	EW003263	EW003271	EW003272	EW003276	EW003283	EW003324	EW003328	EW003330
	EW003331	EW003332	EW003333	EW003334	EW003348	EW003382	EW003390	EW003400
	EW003414	EW003433	EW003445	EW003471	EW003473	EW003477	EW003481	EW003482
	EW003483	EW003484	EW003487	EW003488	EW003489	EW003490	EW003491	EW003492
	EW003494	EW003497	EW003499	EW003500	EW003502	EW003504	EW003505	EW003506
	EW003507	EW003508	EW003509	EW003510	EW003511	EW003512	EW003513	EW003514
	EW003515	EW003526	EW003528	EW003529	EW003536	EW003546	EW003547	EW003551
	EW003554	EW003556	EW003567	EW003568	EW003569	EW003570	EW003571	EW003575
	EW003576	EW003577	EW003579	EW003581	EW003582	EW003658	EW003679	EW003691
	EW003692	EW003697	EW003698	EW003699	EW003701	EW003702	EW003703	EW003704
	EW003705	EW003706	EW003707	EW003708	EW003709	EW003710	EW003712	EW003717
	EW003726	EW003748	EW003752	EW003785	EW003795	EW003800	EW003810	EW003811
	EW003812	EW003813	EW003814	EW003815	EW003816	EW003821	EW003822	EW003823
	EW003831	EW003845	EW003848	EW003849	EW003921			
WASTEWATER TREATMENT	(76)	EW000188	EW000216	EW000413	EW000467	EW000468	EW000512	EW000539
	EW000540	EW000541	EW000542	EW000544	EW000545	EW000546	EW000547	EW000550
	EW000557	EW000742	EW000861	EW000888	EW000899	EW000993	EW001071	EW001088
	EW001092	EW001153	EW001157	EW001258	EW001422	EW001424	EW001657	EW001659
	EW001762	EW001920	EW001924	EW001948	EW001955	EW002022	EW002077	EW002239
	EW002240	EW002241	EW002242	EW002243	EW002247	EW002248	EW002460	EW002615
	EW002956	EW002976	EW003008	EW003025	EW003052	EW003077	EW003082	EW003083
	EW003097	EW003162	EW003189	EW003274	EW003275	EW003501	EW003527	EW003530
	EW003531	EW003681	EW003685	EW003688	EW003696	EW003700	EW003736	EW003767
	EW003789	EW003790	EW003793	EW003794	EW003861			
*WASTEWATER TREATMENT PLANTS	(1)	EW003222						
WASTEWATER TREATMENT PLANTS	(1)	EW003206						
*WATER	(4)	EW003062	EW003310	EW003889	EW003896			
WATER	(8)	EW002990	EW002991	EW002992	EW002993	EW002994	EW002996	EW003008
	EW003012							
*WATER ANALYSIS	(42)	EW000004	EW000032	EW000142	EW000289	EW000290	EW000291	EW000443
	EW000488	EW000510	EW000618	EW000832	EW000833	EW000991	EW000999	EW001012
	EW001021	EW001022	EW001035	EW001036	EW001155	EW001248	EW001249	EW001406
	EW001759	EW001833	EW001834	EW002021	EW002022	EW002042	EW002379	EW002380
	EW002389	EW002413	EW002660	EW002932	EW002934	EW002939	EW002948	EW002958
	EW003264	EW003274	EW003483					
WATER ANALYSIS	(9)	EW000509	EW000784	EW001163	EW002390	EW002591	EW002931	EW003271
	EW003481	EW003748						
*WATER AND WASTEWATER TECHNOLOGY	(1)	EW000609						
*WATER CHARACTERISTICS	(8)	EW000139	EW000142	EW000485	EW000835	EW001412	EW002591	EW002933
	EW002934							
WATER CHARACTERISTICS	(9)	EW000289	EW000290	EW000487	EW000508	EW000517	EW002888	EW002892
	EW002896	EW002931						
*WATER COLLECTION	(1)	EW003170						
*WATER CONDITIONING	(1)	EW003781						
*WATER CONSERVATION	(1)	EW003461						
*WATER COOLING SYSTEMS	(1)	EW001412						
*WATER DESALTING	(1)	EW003424						
*WATER DISPOSAL	(1)	EW003033						
*WATER DISTRIBUTION	(11)	EW000031	EW000034	EW000517	EW001111	EW001115	EW002622	EW003170
	EW003179	EW003182	EW003533	EW003770				
WATER DISTRIBUTION	(2)	EW001806	EW003539					
WATER FILTERER	(1)	EW003411						
*WATER HYACINTH	(1)	EW002925						
*WATER MAINS	(3)	EW000091	EW000092	EW000101				
*WATER MEASUREMENT	(1)	EW000262						
*WATER METERS	(7)	EW000026	EW000095	EW000096	EW000097	EW000098	EW000099	EW000100
*WATER PIPES	(9)	EW000072	EW000079	EW000080	EW000081	EW000082	EW000083	EW000084
	EW000094	EW000101						
WATER PIPES	(2)	EW000073	EW000085					
*WATER POLLUTION	(2)	EW000525	EW003370					
WATER POLLUTION	(1)	EW003271						
*WATER POLLUTION CONTROL	(452)	EW000114	EW000115	EW000165	EW000175	EW000188	EW000190	EW000192
	EW000194	EW000416	EW000455	EW000468	EW000470	EW000471	EW000538	EW000543
	EW000548	EW000556	EW000558	EW000563	EW000574	EW000690	EW000691	EW000736
	EW000801	EW000812	EW000832	EW000840	EW000841	EW000846	EW000848	EW000857
	EW000861	EW000870	EW000871	EW000872	EW000888	EW000889	EW000890	EW000891
	EW000902	EW000903	EW000904	EW000998	EW000999	EW001002	EW001005	EW001023
	EW001025	EW001026	EW001039	EW001040	EW001041	EW001042	EW001043	EW001044
	EW001045	EW001085	EW001085	EW001088	EW001093	EW001094	EW001112	EW001119
	EW001157	EW001163	EW001276	EW001302	EW001382	EW001387	EW001396	EW001412
	EW001419	EW001422	EW001424	EW001438	EW001448	EW001456	EW001632	EW001657
	EW001658	EW001661	EW001662	EW001663	EW001697	EW001703	EW001831	EW001832
	EW001916	EW001917	EW001922	EW001923	EW001924	EW001925	EW001950	EW001952
	EW002002	EW002037	EW002040	EW002042	EW002058	EW002068	EW002239	EW002355
	EW002379	EW002389	EW002390	EW002417	EW002453	EW002460	EW002510	EW002564
	EW002592	EW002613	EW002618	EW002714	EW002774	EW002776	EW002780	EW002889

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	EW002943	EW002944	EW002945	EW002948	EW002950	EW002952	EW002953	EW002954
	EW002957	EW002959	EW002960	EW002961	EW002962	EW002964	EW002965	EW002966
	EW002967	EW002969	EW002970	EW002971	EW002972	EW002973	EW002975	EW002976
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	EW003016	EW003018	EW003019	EW003023	EW003025	EW003026	EW003029	EW003032
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	EW003103	EW003104	EW003106	EW003115	EW003116	EW003117	EW003126	EW003128
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	EW003143	EW003144	EW003145	EW003146	EW003149	EW003150	EW003153	EW003154
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	EW003169	EW003171	EW003172	EW003173	EW003174	EW003175	EW003176	EW003177
	EW003178	EW003182	EW003188	EW003189	EW003190	EW003192	EW003193	EW003194
	EW003195	EW003197	EW003200	EW003202	EW003203	EW003206	EW003209	EW003210
	EW003211	EW003212	EW003215	EW003217	EW003218	EW003221	EW003223	EW003225
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	EW003250	EW003252	EW003253	EW003256	EW003258	EW003259	EW003260	EW003261
	EW003262	EW003265	EW003276	EW003277	EW003283	EW003288	EW003291	EW003292
	EW003293	EW003294	EW003296	EW003298	EW003299	EW003300	EW003314	EW003316
	EW003317	EW003319	EW003325	EW003328	EW003329	EW003330	EW003331	EW003332
	EW003333	EW003334	EW003335	EW003340	EW003343	EW003346	EW003347	EW003348
	EW003349	EW003370	EW003373	EW003381	EW003386	EW003390	EW003392	EW003394
	EW003396	EW003400	EW003401	EW003402	EW003413	EW003414	EW003415	EW003416
	EW003420	EW003432	EW003433	EW003434	EW003436	EW003437	EW003438	EW003442
	EW003443	EW003453	EW003454	EW003459	EW003461	EW003464	EW003465	EW003466
	EW003471	EW003474	EW003474	EW003481	EW003483	EW003484	EW003487	EW003488
	EW003489	EW003493	EW003494	EW003496	EW003497	EW003498	EW003499	EW003500
	EW003501	EW003502	EW003509	EW003522	EW003526	EW003527	EW003531	EW003534
	EW003535	EW003536	EW003538	EW003539	EW003540	EW003541	EW003542	EW003546
	EW003547	EW003548	EW003549	EW003550	EW003551	EW003552	EW003557	EW003558
	EW003561	EW003563	EW003568	EW003569	EW003570	EW003571	EW003575	EW003576
	EW003577	EW003578	EW003580	EW003581	EW003582	EW003584	EW003667	EW003689
	EW003690	EW003691	EW003692	EW003693	EW003706	EW003709	EW003710	EW003712
	EW003719	EW003739	EW003752	EW003767	EW003780	EW003782	EW003784	EW003786
	EW003799	EW003802	EW003803	EW003805	EW003807	EW003810	EW003811	EW003812
	EW003813	EW003814	EW003815	EW003816	EW003830	EW003831	EW003832	EW003833
	EW003836	EW003838	EW003845	EW003848	EW003849	EW003858	EW003860	EW003861
	EW003898	EW003900	EW003920	EW003920	EW003921			
WATER POLLUTION CONTROL	(311)	EW000012	EW000124	EW000168	EW000185	EW000413	EW000466	EW000467
	EW000488	EW000539	EW000540	EW000541	EW000542	EW000544	EW000545	EW000546
	EW000547	EW000549	EW000557	EW000575	EW000631	EW000737	EW000771	EW000780
	EW000784	EW000852	EW000854	EW000961	EW000995	EW001000	EW001020	EW001024
	EW001027	EW001035	EW001036	EW001087	EW001115	EW001118	EW001242	EW001244
	EW001250	EW001258	EW001271	EW001275	EW001659	EW001705	EW001737	EW001762
	EW001765	EW001954	EW001955	EW001963	EW002021	EW002044	EW002056	EW002254
	EW002376	EW002380	EW002413	EW002461	EW002898	EW002911	EW002930	EW002947
	EW002951	EW002955	EW002958	EW002968	EW002974	EW002998	EW003009	EW003012
	EW003013	EW003014	EW003015	EW003017	EW003020	EW003027	EW003028	EW003030
	EW003063	EW003070	EW003072	EW003073	EW003074	EW003075	EW003079	EW003083
	EW003086	EW003087	EW003094	EW003097	EW003108	EW003109	EW003110	EW003111
	EW003112	EW003113	EW003114	EW003119	EW003122	EW003123	EW003127	EW003130
	EW003134	EW003135	EW003136	EW003140	EW003147	EW003148	EW003157	EW003159
	EW003160	EW003161	EW003163	EW003167	EW003186	EW003187	EW003191	EW003196
	EW003198	EW003199	EW003213	EW003222	EW003238	EW003240	EW003251	EW003257
	EW003264	EW003272	EW003274	EW003275	EW003285	EW003297	EW003309	EW003310
	EW003312	EW003315	EW003324	EW003337	EW003338	EW003339	EW003354	EW003356
	EW003360	EW003361	EW003367	EW003368	EW003382	EW003391	EW003393	EW003403
	EW003408	EW003410	EW003427	EW003430	EW003435	EW003440	EW003441	EW003445
	EW003457	EW003458	EW003462	EW003469	EW003470	EW003472	EW003473	EW003478
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	EW003554	EW003556	EW003559	EW003567	EW003573	EW003579	EW003585	EW003589
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	EW003598	EW003599	EW003600	EW003601	EW003602	EW003603	EW003604	EW003605
	EW003606	EW003607	EW003608	EW003609	EW003610	EW003611	EW003612	EW003613
	EW003614	EW003615	EW003616	EW003617	EW003618	EW003619	EW003620	EW003621
	EW003622	EW003623	EW003624	EW003625	EW003626	EW003627	EW003628	EW003629
	EW003630	EW003631	EW003632	EW003633	EW003634	EW003635	EW003636	EW003637
	EW003638	EW003639	EW003640	EW003641	EW003642	EW003643	EW003644	EW003645
	EW003646	EW003647	EW003648	EW003649	EW003650	EW003651	EW003652	EW003653
	EW003654	EW003655	EW003656	EW003657	EW003658	EW003663	EW003668	EW003669
	EW003679	EW003685	EW003695	EW003696	EW003700	EW003701	EW003708	EW003715
	EW003723	EW003725	EW003726	EW003727	EW003729	EW003731	EW003732	EW003733
	EW003735	EW003736	EW003749	EW003785	EW003789	EW003790	EW003791	EW003793
	EW003794	EW003795	EW003796	EW003800	EW003801	EW003817	EW003819	EW003821
	EW003822	EW003823	EW003834	EW003841	EW003842	EW003846	EW003847	EW003862
	EW003863	EW003864	EW003865	EW003866	EW003889	EW003899	EW003919	EW003922
*WATER POLLUTION CONTROL ACT	(1)	EW002618						
*WATER POLLUTION CONTROL FEDERATION	(1)	EW003317						
*WATER PURIFICATION	(1)	EW001411						
*WATER QUALITY	(115)	EW000008	EW000012	EW000013	EW000034	EW000168	EW000187	EW000191
	EW000194	EW000389	EW000468	EW000486	EW000487	EW000508	EW000517	EW000563
	EW000690	EW000691	EW000742	EW000784	EW000801	EW000829	EW000835	EW000836
	EW000837	EW000840	EW000841	EW000846	EW000858	EW000872	EW000889	EW000993
	EW001002	EW001035	EW001036	EW001042	EW001083	EW001092	EW001118	EW001155
	EW001411	EW001424	EW001448	EW001657	EW001659	EW001705	EW001802	EW001810
	EW001812	EW001925	EW001957	EW002002	EW002021	EW002042	EW002044	EW002255
	EW002381	EW002453	EW002591	EW002776	EW002777	EW002780	EW002891	EW002893
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	EW002964	EW002965	EW003015	EW003033	EW003034	EW003170	EW003180	EW003187
	EW003189	EW003193	EW003212	EW003213	EW003218	EW003233	EW003241	EW003259
	EW003260	EW003264	EW003265	EW003274	EW003398	EW003454	EW003471	EW003483
	EW003490	EW003491	EW003537	EW003538	EW003557	EW003558	EW003578	EW003582
	EW003689	EW003695	EW003696	EW003781	EW003782	EW003784	EW003801	EW003803
	EW003805	EW003817	EW003860	EW003861				
WATER QUALITY	(167)	EW000114	EW000115	EW000154	EW000158	EW000165	EW000410	EW000416
	EW000443	EW000470	EW000471	EW000485	EW000830	EW000832	EW000857	EW000857
	EW000870	EW000871	EW000888	EW000890	EW000891	EW000991	EW000995	EW000997
	EW000998	EW000999	EW001000	EW001001	EW001005	EW001021	EW001039	EW001041
	EW001085	EW001088	EW001094	EW001119	EW001155	EW001258	EW001406	EW001412
	EW001661	EW001663	EW001833	EW001834	EW002023	EW002068	EW002379	EW002417
	EW002592	EW002890	EW002910	EW002930	EW002947	EW002950	EW002955	EW003023
	EW003026	EW003030	EW003046	EW003051	EW003059	EW003060	EW003063	EW003065
	EW003067	EW003069	EW003175	EW003176	EW003177	EW003178	EW003188	EW003195
	EW003198	EW003206	EW003209	EW003210	EW003211	EW003225	EW003230	EW003242
	EW003248	EW003249	EW003250	EW003251	EW003256	EW003266	EW003267	EW003271
	EW003272	EW003461	EW003489	EW003501	EW003546	EW003571	EW003575	EW003576
	EW003577	EW003580	EW003706	EW003785	EW003796	EW003799	EW003800	EW003806
	EW003807	EW003831	EW003898	EW003900				
*WATER RATES	(1)	EW000023						
WATER RATES	(1)	EW001811						

*WATER RESOURCES	(227)	EW000154	EW000158	EW000189	EW000194	EW000389	EW000394	EW00040
	EW000403	EW000410	EW000425	EW000435	EW000485	EW000487	EW000488	EW00056
	EW000609	EW000631	EW000742	EW000794	EW000804	EW000822	EW000888	EW00099
	EW001000	EW001002	EW001097	EW001115	EW001153	EW001244	EW001258	EW00127
	EW001425	EW001659	EW001661	EW001697	EW001705	EW001810	EW001830	EW00192
	EW001957	EW002140	EW002170	EW002266	EW002564	EW002615	EW002619	EW00277
	EW002884	EW002887	EW002888	EW002890	EW002891	EW002892	EW002893	EW00289
	EW002896	EW002897	EW002906	EW002925	EW002949	EW002956	EW002957	EW00296
	EW002974	EW002999	EW003003	EW003004	EW003018	EW003021	EW003027	EW00303
	EW003070	EW003072	EW003073	EW003102	EW003105	EW003107	EW003108	EW00310
	EW003110	EW003111	EW003112	EW003113	EW003114	EW003132	EW003151	EW00315
	EW003154	EW003156	EW003157	EW003158	EW003159	EW003160	EW003161	EW00316
	EW003165	EW003167	EW003170	EW003171	EW003179	EW003194	EW003200	EW00320
	EW003202	EW003219	EW003224	EW003240	EW003244	EW003252	EW003254	EW00325
	EW003257	EW003258	EW003262	EW003264	EW003266	EW003267	EW003268	EW00326
	EW003286	EW003287	EW003288	EW003290	EW003295	EW003297	EW003302	EW00330
	EW003305	EW003306	EW003307	EW003308	EW003311	EW003312	EW003313	EW00331
	EW003318	EW003320	EW003321	EW003322	EW003323	EW003325	EW003326	EW00332
	EW003336	EW003339	EW003340	EW003341	EW003342	EW003349	EW003352	EW00335
	EW003355	EW003362	EW003364	EW003365	EW003367	EW003368	EW003369	EW00337
	EW003374	EW003378	EW003379	EW003380	EW003385	EW003387	EW003388	EW00338
	EW003395	EW003398	EW003405	EW003407	EW003418	EW003419	EW003422	EW00342
	EW003424	EW003426	EW003429	EW003431	EW003432	EW003435	EW003440	EW00344
	EW003443	EW003445	EW003446	EW003447	EW003450	EW003451	EW003452	EW00345
	EW003455	EW003459	EW003461	EW003466	EW003467	EW003472	EW003474	EW00348
	EW003486	EW003492	EW003493	EW003495	EW003499	EW003503	EW003516	EW00352
	EW003530	EW003533	EW003539	EW003556	EW003573	EW003582	EW003679	EW00369
	EW003777	EW003805	EW003806	EW003830	EW003838	EW003840	EW003858	EW00386
	EW003891	EW003894	EW003920	EW003920				
WATER RESOURCES	(114)	EW000214	EW000402	EW000486	EW000573	EW000730	EW000848	EW00095
	EW001085	EW001092	EW001118	EW001155	EW001302	EW001396	EW001438	EW00182
	EW001831	EW001832	EW002042	EW002378	EW002617	EW002618	EW002622	EW00292
	EW002964	EW002965	EW002975	EW003000	EW003002	EW003019	EW003032	EW00307
	EW003106	EW003115	EW003116	EW003118	EW003119	EW003136	EW003137	EW00313
	EW003140	EW003141	EW003142	EW003146	EW003155	EW003182	EW003277	EW00328
	EW003289	EW003291	EW003292	EW003293	EW003294	EW003299	EW003300	EW00330
	EW003304	EW003309	EW003345	EW003350	EW003351	EW003359	EW003370	EW00337
	EW003394	EW003396	EW003397	EW003404	EW003409	EW003411	EW003413	EW00341
	EW003420	EW003421	EW003425	EW003436	EW003444	EW003448	EW003449	EW00345
	EW003456	EW003458	EW003460	EW003463	EW003465	EW003468	EW003473	EW00347
	EW003476	EW003487	EW003488	EW003496	EW003497	EW003498	EW003526	EW00352
	EW003529	EW003531	EW003534	EW003554	EW003558	EW003681	EW003685	EW00368
	EW003716	EW003719	EW003729	EW003740	EW003767	EW003833	EW003836	EW00384
	EW003848	EW003849	EW003921					
*WATER RESOURCES SCIENTIFIC INFORMAT	(1)	EW003329						
*WATER REUSE	(5)	EW000573	EW000993	EW002140	EW002266	EW002956		
WATER REUSE	(1)	EW001115						
*WATER RUNOFF	(1)	EW002954						
*WATERSHEDS	(4)	EW000995	EW001928	EW001932	EW002968			
*WATER SOFTENING	(8)	EW000041	EW000043	EW002989	EW002990	EW002991	EW002992	EW00299
	EW002994							
WATER SOFTENING	(1)	EW000042						
*WATER STANDARDS	(2)	EW003234	EW003696					
WATER STORAGE	(1)	EW000999						
*WATER SUPPLY	(34)	EW000012	EW000013	EW000027	EW000106	EW000394	EW000517	EW00052
	EW000804	EW000870	EW000871	EW000957	EW001000	EW001111	EW001248	EW00124
	EW001271	EW001561	EW002619	EW002622	EW002777	EW002894	EW002900	EW00291
	EW002956	EW002966	EW002988	EW003015	EW003018	EW003070	EW003170	EW00324
	EW003257	EW003478	EW003717					
WATER SUPPLY	(12)	EW000028	EW000835	EW000857	EW000872	EW000890	EW000995	EW00099
	EW000999	EW002893	EW003048	EW003455	EW003805			
*WATER TANKS	(3)	EW000102	EW000103	EW000104				
*WATER TREATMENT	(169)	EW000001	EW000002	EW000003	EW000006	EW000008	EW000013	EW00001
	EW000017	EW000018	EW000019	EW000020	EW000021	EW000022	EW000023	EW00002
	EW000025	EW000028	EW000030	EW000038	EW000040	EW000041	EW000042	EW00004
	EW000044	EW000045	EW000046	EW000047	EW000048	EW000049	EW000050	EW00005
	EW000052	EW000054	EW000055	EW000058	EW000059	EW000060	EW000061	EW00006
	EW000110	EW000111	EW000112	EW000113	EW000289	EW000290	EW000291	EW00044
	EW000445	EW000446	EW000447	EW000470	EW000471	EW000509	EW000510	EW00051
	EW000525	EW000543	EW000561	EW000573	EW000609	EW000829	EW000834	EW00083
	EW000836	EW000857	EW000870	EW000871	EW000872	EW000890	EW000891	EW00095
	EW001032	EW001033	EW001034	EW001040	EW001155	EW001250	EW001411	EW00141
	EW001661	EW001662	EW002378	EW002381	EW002591	EW002776	EW002777	EW00291
	EW002966	EW002989	EW002990	EW002991	EW002992	EW002993	EW002994	EW00299
	EW002996	EW002997	EW003048	EW003051	EW003062	EW003067	EW003072	EW00307
	EW003074	EW003075	EW003076	EW003078	EW003079	EW003080	EW003081	EW00308
	EW003085	EW003088	EW003089	EW003090	EW003091	EW003092	EW003093	EW00309
	EW003095	EW003096	EW003098	EW003099	EW003100	EW003102	EW003119	EW00312
	EW003121	EW003154	EW003179	EW003186	EW003187	EW003188	EW003189	EW00321
	EW003226	EW003227	EW003237	EW003251	EW003252	EW003277	EW003382	EW00339
	EW003411	EW003482	EW003483	EW003485	EW003486	EW003489	EW003490	EW00349
	EW003494	EW003496	EW003498	EW003499	EW003501	EW003526	EW003536	EW00353
	EW003539	EW003558	EW003563	EW003717	EW003748	EW003777	EW003791	EW00379
	EW003801	EW003817						
WATER TREATMENT	(26)	EW000012	EW000031	EW000032	EW000056	EW000106	EW000114	EW00011
	EW000472	EW000851	EW001738	EW002998	EW003009	EW003082	EW003118	EW00315
	EW003163	EW003166	EW003170	EW003275	EW003433	EW003461	EW003679	EW00368
	EW003685	EW003688	EW003921					
*WATER TREATMENT PLANTS	(1)	EW003241						
*WATER TREATMENT TECHNICIANS	(1)	EW003777						
*WATER USE	(1)	EW003105						
*WATER UTILITY OPERATORS	(1)	EW003455						
WATER WAVES	(1)	EW002892						
*WATER WELLS	(7)	EW000105	EW000189	EW000410	EW000780	EW000822	EW002564	EW002988
WATER WELLS	(2)	EW000039	EW002897					
WEATHER FORECASTING	(1)	EW003378						
*WEEDS	(8)	EW003324	EW003422	EW003472	EW003729	EW003887	EW003889	EW003891
	EW003892							
WEEDS	(6)	EW003107	EW003495	EW003719	EW003727	EW003888	EW003897	
*WELDING	(3)	EW000076	EW001868	EW001895				
WELDING	(1)	EW003463						

WELLS	(1)	EW00039							
WESTLANDS WATER DISTRICT	(1)	EW03323							
WEST VIRGINIA	(1)	EW03639							
WET-SCRUBBING SYSTEMS	(2)	EW03564	EW03565						
WHOLE NUMBERS	(1)	EW00239							
WILDLIFE MANAGEMENT	(2)	EW03107	EW03894						
WILDLIFE MANAGEMENT	(2)	EW03425	EW03722						
WIRE ROPES	(1)	EW00237							
WIRE ROPE SLINGS	(1)	EW00238							
WISCONSIN	(2)	EW03314	EW03646						
WISCONSIN	(2)	EW03455	EW03466						
WOMEN	(1)	EW01008							
WORD LISTS	(2)	EW00003	EW03663						
WORKBOOKS	(1)	EW03290							
WORK ENVIRONMENT	(2)	EW03532	EW03730						
WORK ENVIRONMENT	(1)	EW03797							
WORKSHEETS	(1)	EW03354							
WORKSHOPS	(9)	EW00329	EW03143	EW03144	EW03145	EW03146	EW03147	EW03148	
	EW03149	EW03150							
WORLD EDUCATION PROJECT	(1)	EW03355							
WORLD METEOROLOGICAL ORGANIZATION	(1)	EW03352							
WORLD PROBLEMS	(5)	EW03228	EW03229	EW03295	EW03573	EW03670			
WORLD PROBLEMS	(3)	EW03296	EW03716	EW03722					
WRITING	(1)	EW00632							
WYOMING	(1)	EW03641							
YOUNG FARMER EDUCATION	(1)	EW03355							
YOUTH	(1)	EW03451							
YOUTH CLUBS	(1)	EW03451							
ZONING	(3)	EW03846	EW03847	EW03860					
ZOOLOGY	(2)	EW00574	EW03720						
ZOOLOGY	(3)	EW00402	EW03236	EW03788					

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