Compiled are abstracts and indexes to selected print and non-print materials related to wastewater treatment and water quality education and instruction, as well as materials related to pesticides, hazardous wastes, and public participation. Sources of abstracted/indexed materials include all levels of government, private concerns, and educational institutions. Title, author(s), publication date, cross-references, descriptors, and availability are provided for each entry. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet the very general or highly specific requirements of their programs. This publication supplements and does not replace "Water Quality Instructional Resources Information System (IRIS): A Compilation of Abstracts to Water Quality and Water Resources" or IRIS supplements 1-23. (JN)
WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts to Water Quality and Water Resources Materials

Supplement 24 (1985)

December 1985
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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. 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:

Environmental Quality Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

(614) 422-6717
I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The Environmental Quality Instructional Resources Center 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 Environmental Quality Instructional Resources Center 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:

Environmental Quality (EQ) Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the materials 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 supplement, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EQ Instructional Resources Center 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 the 1983 compilation and supplements that follow and (2) by computer.
The compilation produced in 1983 includes the original IRIS (1979) and Supplements 1-15. It is available for $75.00.

Quarterly updates of the compilation are available by subscription on a yearly basis. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EQ Instructional Resources Center. A subscription to the quarterly supplements for 1985 is $12.00 (within the U.S.). Price to Canada and Mexico is $14.00. Prices in other countries is $18.00. Separate quarterly supplements are $5.00 each.

The 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. The IRIS tapes are available for searching at the Ohio State University and will again be available for computer searching at other sites in the future.

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
(202) 783-3238

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 EQ Instructional Resources Center 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 users can access them through Dialog, BRS, CompuServe and Systems Development Corporation (Orbit). For the address of search services in your state that can search these databases, contact the:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 422-6717
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 EQ Instructional Resources Center for $0.06 per page plus $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EQ Instructional Resources Center.

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
2214 North Central at Encanto
Phoenix, Arizona 85004
(602) 254-6156

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. For prices and further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106
(800) 521-0600
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 into 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 in ERIC

   a. IRIS NUMBER: EW006023
   b. PUBLICATION DATE: FEB 81
   c. TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.
   d. PERSONAL AUTHOR: SPENCE, GEORGE R., JR.
   e. DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER RESOURCES
   f. DESCRIPTIVE NOTE: 30-33P.
   g. ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN, WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.
   h. AVAILABILITY: POLLUTION ENGINEERING; V13 N2

   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.
5

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

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.

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

Items entered into ERIC (Resources in Education) will have a few additional data fields. See letter references "a" and "b" below.

IRIS ACCESSION NUMBER: EW006664
PUBLICATION DATE: 80
TITLE: RESOURCE DEVELOPMENT OF WATERSHED LANDS: A SIX WEEK SHORT COURSE.
DESCRIPTOR: ADMINISTRATION; ECOLOGICAL FACTORS; ECONOMIC FACTORS; INSTRUCTIONAL MATERIALS; *LAND USE; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WATER RESOURCES; HYDROLOGY; NATURAL RESOURCES MANAGEMENT; WATER QUALITY; *WATERSHEDS

b. DESCRIPTIVE NOTE: EDRS PRICE: MF01 PLUS POSTAGE-NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT.

ABSTRACT: THIS COURSE WAS DESIGNED TO PROVIDE THE WATER RESOURCE TECHNICIAN OR MANAGER WITH INFORMATION WHICH WILL AID IN THE IMPLEMENTATION OF IMPROVEMENTS OF PRESENT LAND USE PRACTICES AND TO ILLUSTRATE ALTERNATIVE CONCEPTS AND TECHNIQUES IN LAND AND WATER USE FOR INCREASING AND IMPROVING THE MULTIPLE PRODUCTS OF WATERSHED LANDS. (ED 197 941)

a. AVAILABILITY: ERIC DOCUMENT REPRODUCTION SERVICE, P. O. BOX 190, ARLINGTON, VA 22210

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 be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
3900 Wheeler Avenue
Alexandria, VA 22304
1-800-227-3742

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 EQ Instructional Resources Center.

B. How to Locate Desired Materials

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

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; hence, they are not listed in this index.

III. 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:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 422-6717

Corrections of errors will occur in the 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 sources 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.
IV. 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 four times a year as information is available.

If you are not on the mailing list write to the EQ Instructional Resources Center for subscription information.

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

V. Requests for Assistance in Using IRIS

If you need help in using the IRIS manuals, phone (614) 422-6717 or write to the EQ Instructional Resources Center. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.
VI. 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 EQ Instructional Resources Center has developed or obtained some materials in these areas.

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 on Adult, Career, and Vocational Education
   The Ohio State University
   National Center for Research in Vocational Education
   1960 Kanny 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 rehabilitation for the handicapped.
B. **ERIC Clearinghouse on Counseling and Personnel Services**  
University of Michigan  
School of Education, 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 and Early Childhood Education**  
University of Illinois  
College of Education  
805 West Pennsylvania Avenue  
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  
Library, Room 108  
1787 Agate Street  
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 Exceptional 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, NW, 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, governance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. **ERIC Clearinghouse on Information Resources**  
Syracuse University  
School of Education  
Huntington Hall, Room 030  
150 Marshall Street  
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 at Los Angeles (UCLA)
   Mathematical Sciences Building, Room 8118
   405 Hilgard Avenue
   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
   1118 "22nd" Street, NW
   Washington, DC 20037
   Telephone: (202) 429-9292

   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 and speakers of other languages.

J. **ERIC Clearinghouse on Reading and Communication Skills**
   National Council of Teacher 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  
The Ohio State University  
1200 Chambers Road - Room 310  
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  
Social Science Education Consortium, Inc.  
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 (AACTE)  
One Dupont Circle, NW, Suite 610  
Washington, DC  20036  
Telephone:  (202) 293-2450  

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 (ETS)
Rosedale Road
Princeton, New Jersey 08541
Telephone: (609) 734-5176

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

P. ERIC Clearinghouse on Urban Education
Teachers College, Columbia University
Institute for Urban and Minority Education
Box 40
525 West 120th Street
New York, New York 10027
Telephone: (212) 678-3433

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 (NIE)
Information Resources Division
1200 - 19th Street, NW
Washington, DC 20208
Telephone: (202) 254-5500

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.
VII. 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 a rental basis or purchased from the EQ Instructional Resources Center. Most items previously available from the NTOTC office are available from the EQ Instructional Resources Center at The Ohio State University. For further information write or call.

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
3900 Wheeler Avenue
Alexandria, VA 22304
1-800-227-3742

C. The EQ Instructional resources Center will provide Xerox copies of materials that are not copyrighted for $1.00 per document plus $0.06 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EQ Instructional Resources Center. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.
RESUME SECTION
IRIS ACCESSION NUMBER: EW012138
PUBLICATION DATE: 85
TITLE: WARNING: WORKERS AT RISK, TRAIN EFFECTIVELY.
PERSONAL AUTHOR: KIMMERLING, GEORGE F.
DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *CHEMICAL HAZARDS; *ENFORCEMENT; *OCCUPATIONAL HAZARDS; *OSHA; *SAFETY; *TRAINING
DESCRIPTIVE NOTE: 50-55P.
ABSTRACT: OSHA'S RIGHT-TO-KNOW STANDARD 15:QUIRES CHEMICAL FIRMS TO INFORM EMPLOYEES OF HAZARDS RELATED TO THE WORK AREA. THE IMPORTANCE OF EFFECTIVE TRAINING FOR BEHAVIOR CHANGE IS STRESSED.
AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V39 N4

IRIS ACCESSION NUMBER: EW012139
PUBLICATION DATE: 85
TITLE: NO MORE PENCILS, NO MORE BOOKS.
PERSONAL AUTHOR: LEAN, ELIZABETH
DESCRIPTOR: *MANAGERS; *MANAGEMENT; *TRAINING
DESCRIPTIVE NOTE: 62-67P.
ABSTRACT: DISCUSSED ARE VARIOUS APPROACHES TO MANAGEMENT TRAINING.
AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V39 N4

IRIS ACCESSION NUMBER: EW012140
PUBLICATION DATE: 85
TITLE: TRAINING 101: PICK THE RIGHT SELF-PACED PACKAGE.
PERSONAL AUTHOR: ROSENBERG, MARC J.
DESCRIPTOR: *EVALUATION; *INSTRUCTIONAL MATERIALS; *INDIVIDUALIZED INSTRUCTION; *MATERIALS EVALUATION
DESCRIPTIVE NOTE: 77-78P.
ABSTRACT: THIS ARTICLE PROVIDES SUGGESTIONS FOR EVALUATING SELF-PACED INSTRUCTIONAL MATERIALS.
AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V39 N4
IRIS ACCESSION NUMBER: EW012169
PUBLICATION DATE: 85
TITLE: APPROPRIATE WASTE MANAGEMENT FOR DEVELOPING COUNTRIES.
PERSONAL AUTHOR: CURI, KRITON
DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *DEVELOPING COUNTRIES; *MANAGEMENT; *ENVIRONMENTAL IMPACT; *POLLUTION CONTROL; *WASTE DISPOSAL
DESCRIPTIVE NOTE: 673P. PRICE: $95.00
ABSTRACT: CLOSE COOPERATION AND DISSEMINATION OF KNOWLEDGE AND EXPERIENCE BETWEEN SCIENTISTS AND ENGINEERS IN DEVELOPING COUNTRIES IS NECESSARY TO SOLVE ENVIRONMENTAL PROBLEMS. TO INITIATE THIS CLOSE CONTACT, A SYMPOSIUM ON ENVIRONMENTAL TECHNOLOGY FOR DEVELOPING COUNTRIES, WHICH EMPHASIZED APPROPRIATE WASTE MANAGEMENT, WAS ORGANIZED IN JULY 1982. THE PROCEEDINGS FROM THIS SYMPOSIUM ARE PRESENTED IN THIS TEXT--A TOTAL OF 47 PAPERS FROM SCIENTISTS IN 20 DIFFERENT COUNTRIES.
AVAILABILITY: PLENUM PUBLISHING CORP., 233 SPRING ST., NEW YORK, NY 10013

IRIS ACCESSION NUMBER: EW012170
PUBLICATION DATE: 85
TITLE: WATER SUPPLY OPERATIONS REFERENCE HANDBOOK.
DESCRIPTOR: CHEMISTRY; *CALCULATIONS; ELECTRICITY; *HANDBOOKS; HYDRAULICS; MATHEMATICS; *OPERATIONS (WATER); *REFERENCE MATERIALS; *WATER SUPPLY
DESCRIPTIVE NOTE: 765P. PRICE: $31.00
ABSTRACT: THROUGH STEP-BY-STEP EXAMPLES THIS REFERENCE HANDBOOK ILLUSTRATES SCENES OF USEFUL CALCULATIONS USED IN THE EVERYDAY OPERATION OF A WATER SUPPLY SYSTEM. MATHEMATICS, HYDRAULICS, CHEMISTRY AND ELECTRICITY ARE THE FOUR MAJOR TOPICS COVERED IN THE HANDBOOK. SAMPLE TOPICS: HOUSEHOLD FIXTURES RATES, MUD BALL CALCULATION, HEAD LOSS, CHEMISTRY DOSAGE, FILTER LOADING RATE, WEIR OVERFLOW RATE.
AVAILABILITY: AWWA, 6666 W. QUINCY AVE., DENVER, CO 80235

IRIS ACCESSION NUMBER: EW012171
PUBLICATION DATE: 84
TITLE: BEYOND DUMPING: NEW STRATEGIES FOR CONTROLLING TOXIC CONTAMINATION.
PERSONAL AUTHOR: PIASECKI, BRUCE, ED.
DESCRIPTOR: *ENVIRONMENT; *DETOXIFICATION; *ENERGY RECOVERY; *HAZARDOUS MATERIALS; *LAND DISPOSAL; *POLICIES; *MANAGEMENT; *POLLUTION CONTROL; *RECYCLING; *REDUCTION; *REGULATIONS; *TECHNOLOGY; *TOXIC SUBSTANCES; *WASTE DISPOSAL
DESCRIPTIVE NOTE: 239P. PRICE: $35.00
ABSTRACT: THIS PUBLICATION REPRESENTS NINE CONTRIBUTORS WHO ARE RECOGNIZED EXPERTS IN RESEARCH AND POLICY ON LANDFILLS AND WASTE TREATMENT TECHNOLOGY. CONTENTS INCLUDE DISCUSSIONS OF THE SOCIAL, POLITICAL, AND TECHNICAL ISSUES RELATED TO CURRENT EFFORTS TO MOVE FROM LAND DISPOSAL OF CHEMICALS TO MORE EFFECTIVE AND ENVIRONMENTALLY SAFE METHODS OF MANAGEMENT. PROCESSES DISCUSSED INCLUDE SOURCE REDUCTION, RECYCLING, DETOXIFICATION, AND ENERGY RECOVERY. EXAMPLES OF WASTE MANAGEMENT IN EUROPE ARE ALSO DESCRIBED.
AVAILABILITY: QUORUM BOOKS, 88 POST RD., WEST, BOX 5007, WESTPORT, CT 06881

IRIS ACCESSION NUMBER: EW012172
PUBLICATION DATE: 85
TITLE: CENTRALIZED WASTE TREATMENT OF INDUSTRIAL WASTEWATER.
PERSONAL AUTHOR: SALZBERG, EDWARD R.; CUSHNIE, GEORGE C.
DESCRIPTOR: *ADMINISTRATION; *CENTRALIZED WASTE TREATMENT; *COSTS; *ENGINEERING; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 415P. PRICE: $45.00
ABSTRACT: INDUSTRIAL FIRMS THAT USE THE CENTRALIZED WASTE TREATMENT (CWT) APPROACH SEND THEIR WASTES TO A COMMON PROCESSING PLANT. THIS TEXT ADDRESSES THE ENGINEERING AND BUSINESS-RELATED PROBLEMS ENCOUNTERED BY PRIVATE CWT FIRMS, LOCAL GOVERNMENTS, AND INDUSTRY IN CREATING SUFFICIENT CWT CAPACITY TO MEET THE DEMANDS FOR SERVICES. IN THE RIGHT SITUATIONS, AND WITH THE PROPER KIND OF INEXPENSIVE RETROFITTING, CWT CAN DRASTICALLY REDUCE THE COSTS OF INDUSTRIAL WASTE TREATMENT. THE BASIC CONCEPTS ARE DEFINED ALONG WITH DETAILED CHAPTERS ON HOW TO SET UP SUCH A PROGRAM.
AVAILABILITY: NOYES PUBLICATIONS, PUBLICITY DEPT., HILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656
**IRIS ACCESSION NUMBER:** EW012173
**PUBLICATION DATE:** 85
**TITLE:** COMPUTER MODELS IN ENVIRONMENTAL PLANNING.
**PERSONAL AUTHOR:** GORDON, STEVEN I.
**DESCRIPTOR:** *COMPUTER APPLICATIONS;* *COMPUTER SOFTWARE;* *ENVIRONMENT;* *HAZARDOUS WASTES;* *MODELS;* *PLANNING;* *SURFACE RUNOFF;* *WATER QUALITY
**DESCRIPTIVE NOTE:** 222P. PRICE: $34.50
**ABSTRACT:** THIS GUIDE SHOWS HOW TO WORK WITH A WIDE RANGE OF MODELS FOR WATER QUALITY, STORM WATER RUNOFF, LAND CAPABILITY/LAND INFORMATION SYSTEMS, AND HAZARDOUS WASTE DISPOSAL. INFORMATION IS PROVIDED ON COMPUTER CODES USED IN ENVIRONMENTAL PLANNING; MODEL INPUT REQUIREMENTS AND SIMPLE OUTPUTS; WATER QUALITY MODELS; AND ATTRIBUTES OF STORM WATER MODELS THE AUTHOR REVIEWS, COMPARES, AND CRITIQUES MAJOR MODELS AND GIVE INSTRUCTIONS ON USING VARIOUS COMPUTER PROGRAMS.
**AVAILABILITY:** VAN NOSTRAND REINHOLD COMPANY, INC., 135 WEST 50TH STREET, NEW YORK, NY 10020

**IRIS ACCESSION NUMBER:** EW012174
**PUBLICATION DATE:** 85
**TITLE:** CONSERVING WATER: THE UNTAPPED ALTERNATIVE.
**PERSONAL AUTHOR:** POSTEL, SANDRA
**DESCRIPTOR:** *AGRICULTURE;* *CONSERVATION;* *IRRIGATION;* *MANAGEMENT;* *NATURAL RESOURCES;* *RECYCLING;* *WATER;* *WATER RESOURCES;* *WORLD PROBLEMS;* *WATER USE
**DESCRIPTIVE NOTE:** 66P. PRICE: $4.00
**ABSTRACT:** THIS REPORT ADDRESSES THE GLOBAL CONCERN OF WATER DEVELOPMENT AND STRESSES THE NEED FOR MANAGEMENT OF THE WATER DEMAND. INVESTMENTS IN WATER EFFICIENCY, RECYCLING, AND CONSERVATION ARE RECOMMENDED OVER CONVENTIONAL WATER SUPPLY PROJECTS FOR GREATER COST BENEFITS AND PRODUCTION YIELD. TOPIC AREAS THAT ADDRESS THIS APPROACH INCLUDE: (1) WATER USE TRENDS IN MAJOR CROP PRODUCING REGIONS; (2) INVESTMENTS IN IRRIGATION EFFICIENCY (WITH EXPLANATIONS AND ANALYSES OF GRAVITY SYSTEMS, SURGE IRRIGATION, SPINNKR DESIGNS, MICRO-METHODS, AND PITCHER TECHNIQUES); (3) NEW CROPPING PATTERNS (CONTAINING DATA ON THE EFFECTS OF CONSERVATION TILLAGE ON WATER STORAGE AND DATA ON WATER CONSUMPTION RATES OF SELECTED CROPS); (4) RECYCLING AND REUSE PROJECTS (INCLUDING A LISTING OF SELECTED SITES OF LARGE-SCALE WATER REUSE PROJECTS); (5) URBAN WATER CONSERVATION PROBLEMS (SPECIFYING SAVINGS WITH WATER EFFICIENT HOUSEHOLD FIXTURES); AND (6) IMPACT FACTORS (TECHNOLOGY, MANAGEMENT PRACTICES, AND GOVERNMENTAL POLICIES).
**AVAILABILITY:** WORLDWATCH INST., 1776 MASSACHUSETTS AVE., NW, WASHINGTON, DC 20036

**IRIS ACCESSION NUMBER:** EW012263
**PUBLICATION DATE:** 85
**TITLE:** TURBIDITY STANDARDS, TECHNICAL INFORMATION SERIES - BOOKLET NO. 12.
**PERSONAL AUTHOR:** HACH, CLIFFORD C.
**DESCRIPTOR:** *ANALYTICAL TECHNIQUES;* *FORMAZIN STOCK SOLUTION;* *LABORATORY PROCEDURES;* *STANDARDS;* *TURBIDITY;* *WATER ANALYSIS;* *WATER QUALITY
**DESCRIPTIVE NOTE:** 14P.
**ABSTRACT:** THIS IS ONE IN A SERIES OF TECHNICAL INFORMATION PUBLICATIONS FROM THE HACH COMPANY. INCLUDED IN THIS PUBLICATION ARE SECTIONS ON PRIMARY STANDARDS, A PRIMARY TURBIDITY STANDARD, USING FORMAZIN STOCK SOLUTION, AND SECONDARY STANDARDS.
**AVAILABILITY:** CLIFFORD C. HACH, HACH COMPANY, LOVELAND, CO

**IRIS ACCESSION NUMBER:** EW012413
**PUBLICATION DATE:** 85
**TITLE:** REGULATION OF UNDERGROUND STORAGE TANKS.
**PERSONAL AUTHOR:** ANDREWS, DAVID E.
**DESCRIPTOR:** *CONTAMINATION;* *GROUNDWATER;* *REGULATIONS;* *REMEDIAL ACTION;* *STORAGE TANKS;* *UNDERGROUND STORAGE TANKS;* *WATER POLLUTION CONTROL;* *WATER QUALITY;* *WATER SUPPLY
**DESCRIPTIVE NOTE:** 1-6P.
**ABSTRACT:** APPROXIMATELY 50 PERCENT OF THE U.S. POPULATION USES GROUND WATER AS ITS SOURCE OF POTABLE WATER. ONE OF THE THREATS TO THIS WATER SUPPLY IS THE UNDERGROUND STORAGE TANK. THIS ARTICLE CONSIDERS FEDERAL, STATE, AND LOCAL REGULATIONS AND INVESTIGATIVE AND REMEDIAL ACTIONS.
**AVAILABILITY:** ERT NEWSLETTER; N

**IRIS ACCESSION NUMBER:** EW012515
**PUBLICATION DATE:** 85
**TITLE:** DESIGN CONSIDERATIONS FOR CERAMIC FINE BUBBLE GRID DIFFUSER SYSTEMS.
**PERSONAL AUTHOR:** HOUCK, DANIEL H.
**DESCRIPTOR:** *BUBBLE DIFFUSERS;* *CERAMIC BUBBLE DIFFUSERS;

**BEST COPY AVAILABLE**
ABSTRACT: THIS ARTICLE PRESENTS DESIGN CONSIDERATIONS FOR CERAMIC FINE BUBBLE GRID DIFFUSER SYSTEMS. THE ARTICLE IS BASED ON THE RESULTS OF PLANT SURVEYS IN EUROPE AND NORTH AMERICA AND FINDINGS FROM EXTENSIVE RESEARCH ON DESIGN AND OPERATIONS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N8

IRIS ACCESSION NUMBER: EW012516

PUBLICATION DATE: 85

TITLE: FLOW RECIRCULATION IN CENTRIFUGAL PUMPS.

PERSONAL AUTHOR: FRASER, WARREN H.

DESCRIPTOR: *CENTRIFUGAL PUMPS; *EQUIPMENT; *FLUID FLOW; *PUMPS; *RECIRCULATION

DESCRIPTIVE NOTE: R-14-17P.

ABSTRACT: DISCUSSED ARE VARIOUS ASPECTS OF FLOW RECIRCULATION IN CENTRIFUGAL PUMPS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N8

IRIS ACCESSION NUMBER: EW012517

PUBLICATION DATE: 85

TITLE: SIZING AND SELECTING MODERN WATER METERS.

PERSONAL AUTHOR: SERUGA, ED

DESCRIPTOR: *EQUIPMENT; *METERS; *OPERATIONS (WATER); *WATER DISTRIBUTION; *WATER METERS; *WATER METER SELECTION

DESCRIPTIVE NOTE: R-33-35P.

ABSTRACT: DISCUSSED ARE VARIOUS VARIABLES TO CONSIDER IN THE SELECTION OF WATER METERS. DISCUSSED ARE THINGS TO CONSIDER IN DETERMINING SIZE AND TYPE OF METER NEEDED.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N8

IRIS ACCESSION NUMBER: EW012518

PUBLICATION DATE: 85

TITLE: IT DOES COMPUTE.

PERSONAL AUTHOR: WALDO, JONATHAN

DESCRIPTOR: *ANALYSIS; *CALCULATIONS; *CALCULATORS; *SOFTWARE; *DESIGN; *PIPES; *SEwers; *WATER DISTRIBUTION; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: R-47-52P.

ABSTRACT: LISTED ARE SEVERAL PROGRAMS FOR PROGRAMMABLE CALCULATORS. THE PROGRAMS ARE FOR THE HP 19C AND 29C CALCULATORS. PROGRAMS ARE INCLUDED FOR SEWER PIPE DESIGN, PIPE CULVERT ANALYSIS, PIPE CULVERT DESIGN, OPEN CHANNEL DESIGN, AND PIPE NETWORK ANALYSIS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N8

IRIS ACCESSION NUMBER: EW012519

PUBLICATION DATE: 85

TITLE: VARIABLE FREQUENCY DRIVES - SOME APPLICATION PRINCIPLES.

PERSONAL AUTHOR: HAMILTON, RICHARD N.

DESCRIPTOR: *COMPRESSORS; CONTROL VALVES; *COSTS; *EQUIPMENT; *FANS; *MOTORS; *VARIABLE FREQUENCY DRIVES; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: R-53-58P.

ABSTRACT: DISCUSSED ARE APPLICATIONS OF VARIABLE FREQUENCY DRIVES RELATED TO THE TREATMENT AND TRANSPORT OF WATER AND WASTEWATER.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N8

IRIS ACCESSION NUMBER: EW012564

PUBLICATION DATE: 85

TITLE: DEVELOPING A CROSS-CONNECTION CONTROL ORDINANCE.

DESCRIPTOR: BACKFLOW PREVENTION; *CROSS CONNECTIONS; *CROSS CONNECTION CONTROL; COMPLIANCE; ENFORCEMENT; *ORDINANCES; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 1, 3-4P.

ABSTRACT: THIS ARTICLE PROVIDES SUGGESTIONS TO CONSIDER FOR DEVELOPING AN ORDINANCE WHICH MAKES CROSS CONNECTIONS ILLEGAL AND PROVIDES FOR ENFORCEMENT ACTION, INSTALLATION REQUIREMENTS, AND COMPLIANCE PROCEDURES.

AVAILABILITY: BACKFLOW PREVENTION; V2 N8
IRIS ACCESSION NUMBER: EW012565
PUBLICATION DATE: 85
TITLE: PUT A PROGRAMMABLE CONTROLLER TO WORK FOR YOU.
PERSONAL AUTHOR: BRAZILL, ANITA; AND OTHERS
DESCRIPTOR: *COMPUTER APPLICATIONS; *PROCESS CONTROL; *PROGRAMMABLE CONTROLLERS
DESCRIPTIVE NOTE: 26-27P.
ABSTRACT: DESCRIBED ARE VARIOUS USES FOR PROGRAMMABLE CONTROLLERS. APPLICATIONS INCLUDE MANUFACTURING, BATCH PROCESS, AND CONTINUOUS PROCESS CONTROL.
AVAILABILITY: ENGINEER'S DIGEST; V10 N9

IRIS ACCESSION NUMBER: EW012566
PUBLICATION DATE: 85
TITLE: HOW TO TAME ELECTRICAL POWER PROBLEMS.
DESCRIPTOR: *ELECTRIC POWER PROBLEMS; *MICROPROCESSORS; *POWER SOURCES; *SURGE PROTECTORS; *TRANSIENT SUPPRESSORS; *VOLTAGE REGULATORS
DESCRIPTIVE NOTE: 54P.
ABSTRACT: THIS ARTICLE PRESENTS SEVERAL COMMON ELECTRICAL POWER PROBLEMS, SOME OF THE RESULTS OF THE PROBLEMS FOR MICROPROCESSORS, AND WAYS TO REDUCE THE POWER PROBLEMS.
AVAILABILITY: ENGINEER'S DIGEST; V13 N9

IRIS ACCESSION NUMBER: EW012567
PUBLICATION DATE: 85
TITLE: RATING MAINTENANCE MANAGEMENT SOFTWARE.
PERSONAL AUTHOR: GEHL, PATRICK
DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *INVENTORY CONTROL; *MAINTENANCE; *MAINTENANCE MANAGEMENT; *REPORTS; *SCHEDULING; *WORK ORDERS
DESCRIPTIVE NOTE: 94P.
ABSTRACT: THIS ARTICLE IS A RATING SCALE FOR EVALUATING MAINTENANCE MANAGEMENT COMPUTER SOFTWARE. THE SCALE REQUIRE THE EVALUATOR TO IDENTIFY WHAT FEATURES THEY WANT IN THE SOFTWARE SYSTEM AND THEN TO CHECK THE SOFTWARE SYSTEMS THEY ARE CONSIDERING.
AVAILABILITY: ENGINEER'S DIGEST; V13 N9

IRIS ACCESSION NUMBER: EW012681
PUBLICATION DATE: 85
TITLE: GIARDIA METHODS WORKSHOP.
PERSONAL AUTHOR: JAKUBOWSKI. W.
DESCRIPTOR: *ANALYTICAL TECHNIQUES; *GIARDIA; *LABORATORY PROCEDURES; *WATER QUALITY; *WORKSHOPS
DESCRIPTIVE NOTE: 16P. PRICE CODE: PC A02/ MF A01. ORDER NO.: PB85-170173/WEP
ABSTRACT: THE OBJECTIVES OF THE WORKSHOP WERE TO FAMILIARIZE PARTICIPANTS WITH THE USE AND LIMITATIONS OF GIARDIA CYST DETECTION METHODOLOGY; TO CRITICALLY REVIEW THE TENTATIVE GIARDIA METHOD APPEARING IN THE 10TH EDITION OF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER; TO SHARE THE EXPERIENCES OF THE PANELISTS AND AUDIENCE IN WORKING WITH METHODS FOR DETECTING GIARDIA CYSTS IN WATER, AND TO MAKE RECOMMENDATIONS FOR IMPROVING THE METHODOLOGY.
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012682
PUBLICATION DATE: 85
TITLE: GUIDE FOR DECONTAMINATING BUILDINGS, STRUCTURES, AND EQUIPMENT AT SUPERFUND SITES.
PERSONAL AUTHOR: ESPOSITO, M. P.; AND OTHERS
DESCRIPTOR: *BUILDINGS; *CASE STUDIES; *COSTS; *DECONTAMINATION; *HAZARDOUS MATERIALS; *EQUIPMENT; *GUIDES; *HEALTH; *SAFETY; *STRUCTURES; *SAMPLING; *TOXIC SUBSTANCES; *SUPERFUND
DESCRIPTIVE NOTE: 266P. PRICE CODE: PC A12/ MF A01. ORDER NO.: PB85-201234/WEP
ABSTRACT: GENERAL GUIDELINES FOR DECONTAMINATING BUILDINGS, STRUCTURES, AND EQUIPMENT AT SUPERFUND SITES ARE DESCRIBED IN THIS REPORT. INFORMATION INCLUDES STEPSWISE GUIDANCE FOR DEVELOPING A COST-EFFECTIVE DECONTAMINATION STRATEGY, DESCRIPTIONS OF VARIOUS METHODS FOR TREATING OR REMOVING CONTAMINANTS FROM STRUCTURAL MATERIALS, CASE STUDIES ILLUSTRATING THE ACTUAL APPLICATION OF MANY DECONTAMINATION METHODS, COST ANALYSES FOR THE APPLICATION OF EACH METHOD TO A MODEL BUILDING, A DISCUSSION OF WORKER HEALTH AND SAFETY PRECAUTIONS, AND A SUMMARY OF AVAILABLE SAMPLING TECHNIQUES. ADDITIONAL RESEARCH IS RECOMMENDED TO (1) VERIFY THE EFFECTIVENESS OF EXISTING DECONTAMINATION METHODS FOR A WIDE RANGE OF CONTAMINANTS AND STRUCTURAL MATERIALS, (2) DEVELOP AND DEMONSTRATE NEW CLEANUP TECHNIQUES, AND (3) IMPROVE SAMPLING TECHNIQUES FOR DETERMINING STRUCTURAL CONTAMINATION.
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285
ABSTRACT: This bibliography contains citations concerning the transport of hazardous materials primarily by road, rail, or cargo vessel. Risk assessment, accident analyses, response programs, and explosives container design aspects are among the topics discussed. Federal legislative aspects and state programs, and test procedures for a variety of container designs are also considered. Selected fossil fuels, explosives, and hazardous chemicals are among the materials presented. Citations pertaining specifically to radioactive materials are excluded. This updated bibliography contains 292 citations, 36 of which are new entries to the previous edition.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012683
PUBLICATION DATE: 85
DESCRIPTOR: ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CHEMICALS; *FUELS; *HAZARDOUS MATERIALS; *EXPLOSIVES; *HAZARDOUS WASTES; *LEGISLATION; *RISK ASSESSMENT; *TRANSPORTATION; *WASTE DISPOSAL
DESCRIPTIVE NOTE: 210P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-858744/WEP

ABSTRACT: This bibliography contains citations concerning the transport of hazardous materials primarily by road, rail, or cargo vessel. Risk assessment, accident analyses, response programs, and explosives container design aspects are among the topics discussed. Federal legislative aspects and state programs, and test procedures for a variety of container designs are also considered. Selected fossil fuels, explosives, and hazardous chemicals are among the materials presented. Citations pertaining specifically to radioactive materials are excluded. This updated bibliography contains 292 citations, 36 of which are new entries to the previous edition.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012684
PUBLICATION DATE: 85
DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *LEGISLATION; *NUCLEAR ENERGY; *RADIOACTIVE MATERIALS; *RISK ASSESSMENT; *TRANSPORTATION; *WASTE DISPOSAL
DESCRIPTIVE NOTE: 250P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-857644/WEP

ABSTRACT: This bibliography contains citations concerning the transportation portion of the nuclear fuel cycle. Topics include routing procedures, programs undertaken by national laboratories, appropriate state legislation, and cost and risk assessments. Considerable attention is given to container design, development, and testing. High and low level wastes are considered. (This updated bibliography contains 363 citations, 19 of which are new entries to the previous edition.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012685
PUBLICATION DATE: 85
TITLE: HEALTH ASSESSMENT DOCUMENT FOR BERYLLIUM. REVIEW DRAFT.
PERSONAL AUTHOR: ELIAS R.; AND OTHERS
DESCRIPTOR: *ASSESSMENT; *BERYLLIUM; *Carcinogens; *HEALTH EFFECTS; *PUBLIC HEALTH
DESCRIPTIVE NOTE: 179P. PRICE CODE: PC A09/MF A01. ORDER NO.: PB85-168493/WEP

ABSTRACT: The properties of Beryllium resemble those of aluminum, zinc, and magnesium. The main routes of Beryllium intake are inhalation and ingestion. The chemical properties of Beryllium are such that transformation of soluble to insoluble forms is of importance. Retention time in the lungs. Absorbed Beryllium is deposited mainly in the skeleton, where the biological half-time is fairly long. The lung is the critical organ of both acute and chronic noncarcinogenic effects. However, the lung effects caused by chronic exposure may be combined with systemic effects. Certain Beryllium compounds have been shown to be carcinogenic in various experimental animals under differing routes of exposure. Epidemiologic studies present equivocal conclusions on the carcinogenicity of Beryllium and Beryllium compounds. A lifetime cancer risk for continuous inhalation exposure at 1 micrograms Beryllium/CU M has been estimated.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012686
PUBLICATION DATE: 85
TITLE: HEALTH EFFECTS OF LAND TREATMENT: TOXICOLOGICAL.
PERSONAL AUTHOR: KOWAL, N. E.
DESCRIPTOR: *HEALTH EFFECTS; *LAND TREATMENT; *PUBLIC HEALTH; *TOXIC SUBSTANCES; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 53P. PRICE CODE: PC A09/MF A01. ORDER NO.: PB85-178473/WEP

ABSTRACT: The potential health effects arising from the land treatment of wastewater are examined, and an appraisal of these effects made. The agents, or pollutants, of concern from a health effects viewpoint are divided into the categories of pathogens and toxic substances. Only the latter are considered in this volume. The former having been discussed in a previous volume. The toxic substances include organics, trace elements, nitrate, and sodium. These agents...

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012697
PUBLICATION DATE: 82
TITLE: IMPACT OF MAN ON THE COASTAL ENVIRONMENT.
PERSONAL AUTHOR: DUKE, T. W.
DESCRIPTOR: *COASTAL ENVIRONMENT; *ENVIRONMENTAL IMPACTS; *OCEANOLOGY; *PROBLEMS; *RESEARCH; *RESEARCH NEEDS; *USEPA; *WATER QUALITY
DESCRIPTIVE NOTE: 128P. PRICE CODE: PC A07/MF A01. ORDER NO.: PB86-198506/WEP
ABSTRACT: THIS VOLUME REPRESENTS EPA’S EFFORT TO TAKE STOCK OF SCIENTIFIC ADVANCES IN RESEARCH PERTAINING TO THE COASTAL ENVIRONMENT SINCE THE INCEPTION OF THE AGENCY AND TO GAUGE WHAT PROGRESS HAS BEEN MADE AND WHAT REMAINS TO BE ACCOMPLISHED. THE ESSAYS IN THIS VOLUME PRESENT A RANGE OF PERSPECTIVES ON THE SUBJECT, FROM THE VANTAGE POINTS OF THE SCIENTIFIC AND TECHNICAL DISCIPLINES WHICH HAVE BEEN CARRYING OUT RELEVANT RESEARCH. THE POINTS OF VIEW REPRESENTED ARE VARIED AND SOMETIMES CONFLICTING. THE AUTHORS HAVE SPECULATED ABOUT EMERGING PROBLEMS AND RESEARCH NEEDS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012688
PUBLICATION DATE: 85
TITLE: INNOVATIVE THERMAL HAZARDOUS WASTE TREATMENT PROCESSES.
PERSONAL AUTHOR: FREEMAN, H. M.
DESCRIPTOR: *INNOVATIVE TECHNOLOGY; *HAZARDOUS WASTES; *MANAGEMENT; *ORGANIC WASTES; *TECHNOLOGY; *THERMAL PROCESSES; *WASTE DISPOSAL
DESCRIPTIVE NOTE: 135P. PRICE CODE: PC A07/MF A01. ORDER NO.: PB85-198506/WEP

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012699
PUBLICATION DATE: 84
TITLE: INSTITUTIONAL OPTIONS FOR IMPROVED WATER QUALITY MANAGEMENT: POLICY DIRECTION.
PERSONAL AUTHOR: MORRIS, F. A.; CARNEY, S. M.
DESCRIPTOR: *MANAGEMENT; *POLICIES; *PUGET SOUND; *RESEARCH; *REPORTS; *WATER QUALITY
DESCRIPTIVE NOTE: 60P. PRICE CODE: PC A04/MF A01. ORDER NO.: PB85-174597/WEP
ABSTRACT: THIS IS THE SECOND OF TWO REPORTS ANALYZING INSTITUTIONAL OPTIONS FOR THE IMPROVED MANAGEMENT OF WATER QUALITY IN PUGET SOUND. THE PRESENT REPORT EXAMINES OPTIONS FOR IMPROVING THE COORDINATION OF INVESTIGATION, RESEARCH, AND OTHER ACTIVITIES. FOR PURPOSES OF THESE REPORTS, PUGET SOUND WATER QUALITY MANAGEMENT IS DEFINED TO REFLECT THE STATED OBJECTIVES OF THE FEDERAL CLEAN WATER ACT. IT ENCOMPASSES ALL GOVERNMENTAL DECISIONS AND ACTIONS CONCERNING THE DEVELOPMENT AND USE OF LAND AND WATER RESOURCES OF THE SOUND, INCLUDING THE CONTROL OF POLLUTANT DISCHARGES, THAT COULD AFFECT THE CHEMICAL, PHYSICAL, OR BIOLOGICAL INTEGRITY OF PUGET SOUND.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW0126990
PUBLICATION DATE: 84
TITLE: INSTITUTIONAL OPTIONS FOR IMPROVED WATER QUALITY MANAGEMENT: POLICY DIRECTION.
PERSONAL AUTHOR: MORRIS, F. A.; CARNEY, S. M.
DESCRIPTOR: *MANAGEMENT; *POLICIES; *PUGET SOUND; *WATER QUALITY
DESCRIPTIVE NOTE: 120P. PRICE CODE: PC A06/MF A01. ORDER NO.: PB85-174589/WEP
ABSTRACT: THIS IS THE FIRST OF TWO REPORTS ANALYZING...

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012691
PUBLICATION DATE: 85
TITLE: INTEGRATION OF BUILDING AND ENERGY TECHNOLOGY WITH ONSITE WASTE MANAGEMENT IN THE YEAR 2000.
PERSONAL AUTHOR: DEESE, P. L.; AND OTHERS
DESCRIPTOR: *BUILDING TECHNOLOGY; *COGENERATION; *ENERGY TECHNOLOGY; *MANAGEMENT; *RESIDENCES; *RESEARCH RECOVERY; *UTILITY SYSTEMS; *WASTE DISPOSAL; *WASTE MANAGEMENT; *WATER SUPPLY
DESCRIPTIVE NOTE: 174P. PRICE CODE: PC A08/MF A01. ORDER NO.: PB85-180479/ WEP
ABSTRACT: DURING THIS STUDY THE POTENTIAL FEASIBILITY OF INTEGRATING WASTE MANAGEMENT, WATER SUPPLY AND ON-SITE ENERGY GENERATION WAS EXAMINED WITH THE OBJECTIVE OF IMPROVING THE OVERALL RESOURCE EFFICIENCY OF THE TYPICAL RESIDENTIAL UNIT. THIS REPORT CAN BE USED BY MEMBERS OF THE VARIOUS RESEARCH AND DEVELOPMENT COMMUNITIES TO GAIN UNDERSTANDING OF OTHER FIELDS AND IS MEANT TO FOSTER THE APPRECIATION OF THE INTERRELATIONSHIPS BETWEEN RESIDENTIAL UTILITY SYSTEMS.
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012693
PUBLICATION DATE: 85
DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *LAKES; *PONDS; *RIVERS; *SAMPLING; *SEDIMENTS; *WATER QUALITY
DESCRIPTIVE NOTE: 184P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-864882/ WEP
ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING TECHNIQUES AND RESULTS RELATED TO THE COLLECTION OF SAMPLES FROM THE BOTTOM OF PONDS, LAKES, AND RIVERS. TECHNIQUES INCLUDE SAMPLING DEVICES, PLATFORMS FOR MOUNTING OR OPERATING THE SAMPLING DEVICES, AND ANALYTICAL TECHNIQUES FOR THE COLLECTED SAMPLES. RESULTS INCLUDE FINDINGS OF ORGANIC, CHEMICAL, METALLIC MATERIAL IN THE BOTTOM SEDIMENTS, WITH, IN MANY CASES, STATEMENTS ON RESULTING WATER QUALITY OR ENVIRONMENTAL ASPECTS AND CAUSES. IN SOME CASES, THE INVESTIGATIONS COVER POROSITY OF BOTTOM SOILS, AND GROUND WATER BENEATH THE LAKE OR RIVER. MANY OF THE SAMPLES INCLUDE BENTHIC FAUNA TO ASSESS THE CONDITION OF THE WATER. (THIS UPDATED BIBLIOGRAPHY CONTAINS 188 CITATIONS, 15 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012694
PUBLICATION DATE: 85
DESCRIPTOR: *CONFERENCE PROCEEDINGS; *HAZARDOUS WASTES; *INCINERATION; *LAND DISPOSAL; *MANAGEMENT; *REMEDIAL ACTION; *WASTE DISPOSAL
DESCRIPTIVE NOTE: 335P. PRICE CODE: PC A17/MF A01. ORDER NO.: PB85-196376/ WEP
ABSTRACT: THE ELEVENTH ANNUAL RESEARCH SYMPOSIUM ON LAND DISPOSAL, REMEDIAL ACTION, INCINERATION AND TREATMENT OF HAZARDOUS WASTE WAS HELD IN CINCINNATI, OH, APRIL 29 THROUGH MAY 1, 1985. THE PURPOSE OF THE SYMPOSIUM WAS TO PRESENT THE LATEST SIGNIFICANT RESEARCH FINDINGS OF ONGOING AND RECENTLY COMPLETED PROJECTS FUNDED BY THE LAND POLLUTION CONTROL DIVISION (LPCD), AND THE ALTERNATIVE TECHNOLOGIES DIVISION (ATD) OF THE HAZARDOUS WASTE ENGINEERING RESEARCH LABORATORY TO PERSONS CONCERNED WITH HAZARDOUS WASTE MANAGEMENT. THESE PROCEEDINGS ARE FROM SESSION A, HAZARDOUS WASTE LAND DISPOSAL AND SESSION C, LPCD POSTERS. PAPERS PRESENTED BY SYMPOSIUM SPEAKERS ARE: POSTER PRESENTATION ABSTRACTS IN THE AREAS OF (1) REMEDIAL ACTION; (2) POLLUTANT ASSESSMENT AND (3) POLLUTANT CONTROL ARE INCLUDED. SUBJECTS DISCUSSED INCLUDE LANDFILL DESIGN AND OPERATION, WASTE LEACHING AND ANALYSES, POLLUTANT MIGRATION AND CONTROL, WASTE MODIFICATION, SURFACE IMPoundMENTS, FLEXIBLE MEMBRANE LINERS, REMEDIAL ACTION TECHNIQUES AND UNDERGROUND HIRE DISPOSAL. THIS DOCUMENT COVERS HAZARDOUS WASTE LAND DISPOSAL ONLY. A SEPARATE DOCUMENT CONCERNED WITH HAZARDOUS WASTE INCINERATION AND TREATMENT WILL BE PUBLISHED BY THE HAZARDOUS WASTE ENGINEERING RESEARCH LABORATORY.
PERSONAL AUTHOR: ADAMS-WALDEN, L.

DESCRIPTION: *CONSTRUCTION GRANTS PROJECTS; *ENVIRONMENTAL EFFECTS; *EVALUATION; *FACILITIES; *MANUALS; *USEPA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 106P. PRICE CODE: PC A06/MF A01. ORDER NO.: PB85-210136/WEP

ABSTRACT: A DETAILED METHODOLOGY HAS BEEN DEVELOPED WHICH DETERMINES THE ACCURACY WITH WHICH PLANNING AND ENVIRONMENTAL REVIEW DOCUMENTS (NEPA DOCUMENTS) ASSESSED PREDICTED ENVIRONMENTAL EFFECTS OF CONSTRUCTION GRANTS PROJECTS. THE METHODOLOGY WAS DEVELOPED TO EVALUATE THE ENTIRE SPECTRUM OF CONSTRUCTION GRANTS PROJECTS. IN GENERAL, EVALUATIONS ARE POSSIBLE FOR THREE TYPES OF SITUATIONS: SINGLE PROJECT; AGGREGATE OF PROJECTS; AND AN ENTIRE PROGRAM. SPECIFIC COMPONENTS OF THE METHODOLOGY INCLUDE THE USE OF: (1) A SIMPLE SET OF PROCEDURES; (2) A STANDARD SET OF ISSUES FOR EVALUATIONS; (3) SYSTEMATIC DATA RETRIEVAL; (4) UNIFORM MEASUREMENTS; AND (5) CONSISTENT DOCUMENTATION. USE OF THE MANUAL WILL NECESSITATE A COMBINATION OF STRUCTURED ANALYSIS WITH QUALIFIED PROFESSIONAL JUDGMENT; JUDGMENT THAT ASSUMES A DEGREE OF EXPERIENCE IN IMPACT ASSESSMENT. DOCUMENTATION OF JUDGMENTAL DECISIONS IS REQUIRED WITHIN THE METHODOLOGY TO INSURE AN UNDERSTANDING OF THE SUBJECTIVE FACTORS INFLUENCING THE EVALUATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012696
PUBLICATION DATE: 85

TITLE: MANUAL FOR EVALUATING PREDICTED AND ACTUAL IMPACTS OF CONSTRUCTION GRANTS PROJECTS.

PERSONAL AUTHOR: ADAMS-WALDEN, L.

DESCRIPTION: *CONSTRUCTION GRANTS PROJECTS; *ENVIRONMENTAL EFFECTS; *EVALUATION; *FACILITIES; *MANUALS; *USEPA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 106P. PRICE CODE: PC A06/MF A01. ORDER NO.: PB85-210136/WEP

ABSTRACT: A DETAILED METHODOLOGY HAS BEEN DEVELOPED WHICH DETERMINES THE ACCURACY WITH WHICH PLANNING AND ENVIRONMENTAL REVIEW DOCUMENTS (NEPA DOCUMENTS) ASSESSED PREDICTED ENVIRONMENTAL EFFECTS OF CONSTRUCTION GRANTS PROJECTS. THE METHODOLOGY WAS DEVELOPED TO EVALUATE THE ENTIRE SPECTRUM OF CONSTRUCTION GRANTS PROJECTS. IN GENERAL, EVALUATIONS ARE POSSIBLE FOR THREE TYPES OF SITUATIONS: SINGLE PROJECT; AGGREGATE OF PROJECTS; AND AN ENTIRE PROGRAM. SPECIFIC COMPONENTS OF THE METHODOLOGY INCLUDE THE USE OF: (1) A SIMPLE SET OF PROCEDURES; (2) A STANDARD SET OF ISSUES FOR EVALUATIONS; (3) SYSTEMATIC DATA RETRIEVAL; (4) UNIFORM MEASUREMENTS; AND (5) CONSISTENT DOCUMENTATION. USE OF THE MANUAL WILL NECESSITATE A COMBINATION OF STRUCTURED ANALYSIS WITH QUALIFIED PROFESSIONAL JUDGMENT; JUDGMENT THAT ASSUMES A DEGREE OF EXPERIENCE IN IMPACT ASSESSMENT. DOCUMENTATION OF JUDGMENTAL DECISIONS IS REQUIRED WITHIN THE METHODOLOGY TO INSURE AN UNDERSTANDING OF THE SUBJECTIVE FACTORS INFLUENCING THE EVALUATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012697
PUBLICATION DATE: 85

TITLE: METHODS TO IDENTIFY WATERBORNE PATHOGENS AND INDICATOR ORGANISMS.

PERSONAL AUTHOR: ERICKSEN, T. H.; AND DUFOR, A. P.

DESCRIPTION: *ANALYTICAL TECHNIQUES; *BIOLOGICAL INDICATORS; *LABORATORY PROCEDURES; *MATERIALS; *MONITORING; *PATHOGENS; *SAMPLEING; *WATERBORNE PATHOGENS; *WATER QUALITY

DESCRIPTIVE NOTE: 208P. PRICE CODE: PC A04/MF A01. ORDER NO.: PB85-662926/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE CONTROL, TREATMENT, AND DISPOSAL OF METAL CONTAINING LIQUID WASTES. THE RECLAMATION, SEPARATION, ANALYSIS, AND TOXICITY EVALUATION OF METALS IN WASTES FROM SUCH INDUSTRIES AS ELECTRONICS, TEXTILE, MINING, AND CHEMICAL ARE INCLUDED. ELEKTROPLATING WASTES ARE EMPHASIZED AND CONSIDERATION IS GIVEN TO SPECIFIC RECLAMATION PROCESSES. THIS UPDATED BIBLIOGRAPHY CONTAINS 904 Citations, None of Which Are New Entries to the Previous Edition.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012701
PUBLICATION DATE: 85


PERSONAL AUTHOR: ADAMS-WALDEN, L.

DESCRIPTION: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *INDUSTRIAL WASTES; *LIQUID WASTES; *METALS; *OPERATIONS (WASTEWATER); *RECLAMATION; *TOXIC SUBSTANCES; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 208P. PRICE CODE: PC A04/MF A01. ORDER NO.: PB85-662926/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE CONTROL, TREATMENT, AND DISPOSAL OF METAL CONTAINING LIQUID WASTES. THE RECLAMATION, SEPARATION, ANALYSIS, AND TOXICITY EVALUATION OF METALS IN WASTES FROM SUCH INDUSTRIES AS ELECTRONICS, TEXTILE, MINING, AND CHEMICAL ARE INCLUDED. ELEKTROPLATING WASTES ARE EMPHASIZED AND CONSIDERATION IS GIVEN TO SPECIFIC RECLAMATION PROCESSES. THIS UPDATED BIBLIOGRAPHY CONTAINS 904 Citations, None of Which Are New Entries to the Previous Edition.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012710

PUBLICATION DATE: 85


DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *LAKES; *NUTRIENT REMOVAL; *PONDS; *RIVERS; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 109P. PRICE CODE: PC NO1/MF NO1. ORDER NO.: PB85-863391/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING NUTRIENT REMOVAL TECHNIQUES IN LAKES, PONDS, RIVERS, AND STREAMS RELATIVE TO WATER QUALITY CONTROL AND WASTE WATER MANAGEMENT. NATURAL AND ARTIFICIAL REMOVAL PROCESSES SUCH AS REMOVAL BY BIOLOGICAL TREATMENT, SEDIMENTATION, RESERVOIR, AND FLOODED FIELD ARE DISCUSSED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 92 CITATIONS, 16 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012711

PUBLICATION DATE: 85


DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CONSTRUCTION; *DESIGN; *ENVIRONMENTAL EFFECTS; MONITORING; OCEANS; *OUTFALL SEwers; *SEwers; *WASTE DISPOSAL; WASTEWATER

DESCRIPTIVE NOTE: 168P. PRICE CODE: PC NO1/MF NO1. ORDER NO.: PB85-864662/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING DESIGN, CONSTRUCTION, AND ENVIRONMENTAL EFFECTS OF OUTFALL SEwers. TOPICS INCLUDE DOMESTIC SEWAGE OR AQUATIC ENVIRONMENTAL AND BENTHIC ECOSYSTEMS, AND POLLUTION CONTROL OF OUTFALL SEwers ARE DISCUSSED. MONITORING OF POLLUTANTS IN SEWAGE, SEWAGE, AND CONTAMINANTS FROM SEwers, AND MODELING OF OUTFALL SEwers ARE ALSO INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 168 CITATIONS, 19 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012712

PUBLICATION DATE: 85


DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *DETECTION; *ANALYTICAL TECHNIQUES; *MONITORING; OIL POLLUTION; *SANITATION; *WATER POLLUTION

DESCRIPTIVE NOTE: 170P. PRICE CODE: PC NO1/MF NO1. ORDER NO.: PB85-863595/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE MONITORING AND ANALYSIS OF OIL POLLUTION RESULTING FROM PRODUCTION AND TRANSPORT OPERATIONS. DESCRITIONS AND EVALUATIONS OF MONITORING METHODS AND DEVICES, TABBING AND TRACING TECHNIQUES, ANALYTICAL TECHNIQUES, INCLUDING SPECTROSCOPY AND CHROMATOGRAPHY, ARE AMONG THE TOPICS REVIEWED. REMOTE SENSING METHODS, AND OIL-LEADING SEDIMENT SAMPLING AND ANALYSES ARE ALSO CONSIDERED. WHILE THE MAJORITY OF THE CITATIONS PERTAIN TO MARINE POLLUTION, SOME ATTENTION IS GIVEN TO TERRESTRIAL ASPECTS. CITATIONS PERTAINING SPECIFICALLY TO POLLUTION EFFECTS ON FLORA AND FAUNA ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 176 CITATIONS, 24 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012713

PUBLICATION DATE: 85


DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CLEANUP; *ENVIRONMENTAL EFFECTS; *EQUIPMENT; *OIL SPILLS; *OIL SPILL REMOVAL; *TECHNOLOGY; WATER QUALITY; *WATER POLLUTION

DESCRIPTIVE NOTE: 87P. PRICE CODE: PC NO1/MF NO1. ORDER NO.: PB85-864809/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING EQUIPMENT FOR THE CONTROL, DISPERSION, CLEANUP, AND DISPOSAL OF OIL SPILLS. TOPICS INCLUDE CHEMICAL DISPERGENTS, PUMPS, AND MECHANICAL SKIMMERS, HARBOURS, ESTUARIES, SHORELINES, AND THE RESULTING IMPACT ON WATERS, BIRDS, AND MARINE LIFE ARE EMPHASIZED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 118 CITATIONS, 15 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012714

PUBLICATION DATE: 85


DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CLEANUP; *ENVIRONMENTAL EFFECTS; *EQUIPMENT; *OIL SPILLS; *OIL SPILL REMOVAL; *TECHNOLOGY; WATER QUALITY; *WATER POLLUTION

DESCRIPTIVE NOTE: 87P. PRICE CODE: PC NO1/MF NO1. ORDER NO.: PB85-864809/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING EQUIPMENT FOR THE CONTROL, DISPERSION, CLEANUP, AND DISPOSAL OF OIL SPILLS. TOPICS INCLUDE CHEMICAL DISPERGENTS, PUMPS, AND MECHANICAL SKIMMERS, HARBOURS, ESTUARIES, SHORELINES, AND THE RESULTING IMPACT ON WATERS, BIRDS, AND MARINE LIFE ARE EMPHASIZED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 118 CITATIONS, 15 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012715

PUBLICATION DATE: 85


DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CLEANUP; *ENVIRONMENTAL EFFECTS; *EQUIPMENT; *OIL SPILLS; *OIL SPILL REMOVAL; *TECHNOLOGY; WATER QUALITY; *WATER POLLUTION

DESCRIPTIVE NOTE: 87P. PRICE CODE: PC NO1/MF NO1. ORDER NO.: PB85-864809/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING EQUIPMENT FOR THE CONTROL, DISPERSION, CLEANUP, AND DISPOSAL OF OIL SPILLS. TOPICS INCLUDE CHEMICAL DISPERGENTS, PUMPS, AND MECHANICAL SKIMMERS, HARBOURS, ESTUARIES, SHORELINES, AND THE RESULTING IMPACT ON WATERS, BIRDS, AND MARINE LIFE ARE EMPHASIZED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 118 CITATIONS, 15 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161
ABSTRACT: This bibliography contains citations concerning the occurrence and detection of pesticide residues in dairy products. Characteristics and effects of the pesticides are considered, and the mechanisms by which they enter the food chain are discussed. Methods used to eliminate pesticide contamination, and analytical techniques employed in quantitation studies are considered. Considerable attention is given to the occurrence of organochlorine compounds in milk. (This updated bibliography contains 342 citations, 22 of which are new entries to the previous edition.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161
BIBLIOGRAPHIES: BIBLIOGRAPHIES; *BERYLLIUM; COAL; *ENVIRONMENTAL EFFECTS; *POLUUTION CONTROL; *MONITORING; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 137P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-858694/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING SOURCES AND ABATEMENT MEASURES UTILIZED TO CONTROL POLLUTION CAUSED BY BERYLLIUM AND BERYLLIUM COMPOUNDS. TOPICS INCLUDE EXPOSURE STANDARDS, CHARACTERIZATION, TOXICOLOGICAL STUDIES, MONITORING PROGRAM, AND ANALYTICAL PROCEDURES EMPLOYED IN DETECTION AND SAMPLING OPERATIONS. CONSIDERABLE ATTENTION IS GIVEN TO COAL COMBUSTION AND CONVERSION PROCESSES AS SOURCES OF BERYLLIUM CONTAMINANTS. (THIS UPDATED BIBLIOGRAPHY CONTAINS 139 CITATIONS, 12 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012723

PUBLICATION DATE: 85


DESCRIPTORS: *AER POLLUTION CONTROL; *ANOTATED BIBLIOGRAPHIES; *BIPHENYLS; *ENVIRONMENTAL IMPACTS; *PCBS; *POLYCHLORINATED BIPHENYLS; *TOXIC SUBSTANCES; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 221P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-854340/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING SOURCES, DISTRIBUTION, AND TRANSPORT OF POLYCHLORINATED BIPHENYLS (PCB'S) IN THE ENVIRONMENT. TOPICS INCLUDE SITE SURVEYS TO ASSESS THE EXTENT OF POLLUTION PROBLEMS IN SPECIFIC AREAS, TOXICOLOGY, DETECTION AND REMOVAL METHODS, AND ENVIRONMENTAL IMPACT STUDIES. WATER AND AIR POLLUTION SURVEYS ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 243 CITATIONS, 35 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012724

PUBLICATION DATE: 85


DESCRIPTORS: *ANOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *BIOLOGICAL TREATMENT; *EFFLUENTS; *INDUSTRIAL WASTES; *PULP INDUSTRY; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 132P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-862707/WEP
IRIS ACCESSION NUMBER: EW012735
PUBLICATION DATE: 85
DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CONSTRUCTION; *COSTS; *ECONOMICS; *FACILITIES; *SEWAGE; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 255P. PRICE CODE: PC N01/ MF N01. ORDER NO.: PB85-863496/WEP
ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE COSTS AND ECONOMICS INVOLVED IN TECHNOLOGY AND SYSTEMS FOR SEWAGE TREATMENT, SLUDGE DISPOSAL, AND SEWER LINES. MOST OF THE STUDIES COVER THE OVERALL CONSTRUCTION AND OPERATING COSTS OF SEWAGE TREATMENT PLANTS. OTHER STUDIES COVER RATE STRUCTURES, FINANCING, USER CHARGES, AND BENEFITS OF REGIONALIZED PLANTS. (THIS UPDATED BIBLIOGRAPHY CONTAINS 278 CITATIONS, 61 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012737
PUBLICATION DATE: 85
DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; DEWATERING; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *SEWAGE; SLUDGE; *SLUDGE DEWATERING; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 239P. PRICE CODE: PC N01/ MF N01. ORDER NO.: PB85-662407/WEP
ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING DEWATERING TECHNIQUES AND EQUIPMENT IN SEWAGE AND WASTE TREATMENT. SEWAGE SLUDGE AND WASTE DEWATERING DESIGN, PROCESSES, AND DEVICES ARE DISCUSSED. INDUSTRIAL AND MUNICIPAL SLUDGE DEWATERING TECHNIQUES ARE CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 272 CITATIONS, 199 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012738
PUBLICATION DATE: 85
TITLE: SLUDGE DEWATERING IN THE PULP AND PAPER INDUSTRY. 1977-JULY 1985 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE)
DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; DEWATERING; INDUSTRY; *OPERATIONS (WASTEWATER); *PAPER INDUSTRY; *PULP INDUSTRY; *SLUDGE DEWATERING; *SLUDGE; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 77P. PRICE CODE: PC N01/ MF N01. ORDER NO.: PB85-663744/WEP
ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING SLUDGE DEWATERING METHODS AS USED IN SUCH PULP AND PAPER PRODUCTION AS SULFITE PULP, NEWSPRINT, CONQUUCATED BOARD, AND KRAFT MILLS. PRIMARY AND SECONDARY SLUDGE DEWATERING SYSTEMS ARE DISCUSSED. GRAVITY, CENTRIFUGAL, FLAME AND FILTER PRESS PROCESSES FOR SEMI-SOLIDS AND SOLIDS ARE INCLUDED FOR PILOT, AS WELL AS ESTABLISHED PLANTS. (THIS UPDATED BIBLIOGRAPHY CONTAINS 76 CITATIONS, 17 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012739
PUBLICATION DATE: 84
TITLE: STORMWATER MANAGEMENT ALTERNATIVES: A COMPUTER-BASED PROGRAM FOR THE SELECTION OF TECHNIQUES TO MITIGATE THE IMPACT OF URBAN STORM
PERSONAL AUTHOR: TOURBIER, J. T.; SCARBOROUGH, E. N.
DESCRIPTOR: *COMPUTER SOFTWARE; *COMPUTER APPLICATIONS; *DESIGN; *MAINTENANCE; *MANAGEMENT; *OPERATIONS; *STORMWATER; *URBAN AREAS
DESCRIPTIVE NOTE: 147P. PRICE CODE: PC A07. ORDER NO.: PB85-157857/WEP
ABSTRACT: THE PURPOSE OF THIS PROJECT WAS TO DEVELOP A SOFTWARE PROGRAM FOR USE WITH AN IBM PERSONAL COMPUTER AS A TECHNOLOGY TRANSFER TOOL THAT AIDS IN THE SELECTION OF STORMWATER MANAGEMENT TECHNIQUES. USERS ARE ASKED TO SUPPLY INFORMATION ABOUT A DEVELOPMENT SITE AND DEFINE PLANNING OBJECTIVES. THE PROGRAM THEN QUANTIFIES RUNOFF CONDITIONS. THE PROGRAM PRE-SELECTS MEASURES APPLICABLE TO THE SITE. THE USER IS THEN ABLE TO EXPLORE MEASURES IN VARIOUS LEVELS OF DETAIL AND ASSIGN TO A GIVEN MEASURE A VALUE REPRESENTING ITS ASSURED USEFULNESS. THE USER IS THEN DIRECTED TO ELIMINATE MEASURES THAT DUPLICATE FUNCTIONS AND REMINDED TO EXPLORE APPLICABLE CONCEPTS AND MEASURES THAT HAVE BEEN OVERLOOKED. FINALLY, THE PROGRAM OFFERS DESIGN, OPERATION, AND MAINTENANCE RECOMMENDATIONS FOR MEASURES SELECTED AND GIVES A PRINTOUT OF THE INFORMATION.
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161
ABSTRACT: This bibliography contains citations concerning the toxicity, carcinogenicity, environmental pollution, and other hazards of arsenic. Environmental pollution assays, biological monitoring methods, and chemical assays for the detection of arsenic are among the topics considered. Pollution from coal fired and geothermal power plants is also discussed. (This updated bibliography contains 285 citations, none of which are new entries to the previous edition.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012744

PUBLICATION DATE: 85


DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANNOTATED BIBLIOGRAPHIES; *ARSENIC BIBLIOGRAPHIES; *MONITORING; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 158P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-862910/WEP

ABSTRACT: This bibliography contains citations concerning the toxicity, carcinogenicity, environmental pollution, and other hazards of arsenic. Environmental pollution assays, biological monitoring methods, and chemical assays for the detection of arsenic are among the topics considered. Pollution from coal fired and geothermal power plants is also discussed. (This updated bibliography contains 164 citations, all of which are new entries to the previous edition.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012745

PUBLICATION DATE: 85


DESCRIPTOR: *ENVIRONMENTAL EFFECTS; *ENVIRONMENTAL POLLUTION; *PUBLIC HEALTH; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 23P. PRICE CODE: PC A01/MF A01. ORDER NO.: PB85-211720/WEP

ABSTRACT: Eleven home water systems were tested representing six different types of filtering systems. Tests were made for sulfates, nitrates, phosphate, iron and Escherichia coli and Enterobacter aerogenes before and after passing through a home treatment system. All of the systems removed nitrates, phosphates, and sulfate. Since none of the ground waters was contaminated by coliforms, nothing was established regarding the effectiveness of bacterial removal by these systems.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012740

PUBLICATION DATE: 85


DESCRIPTOR: *ANALYTICAL TECHNIQUES; BIBLIOGRAPHIES; *ENVIRONMENTAL EFFECTS; *LAND RECLAMATION; *MINING; *STRIP MINING; *WASTE DISPOSAL; *WATER RESOURCES

DESCRIPTIVE NOTE: 180P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-863409/WEP

ABSTRACT: This bibliography contains citations concerning strip mine wastes and the effect on water resources. The studies are both general, investigating the hydraulics of wastes and runoff, and specific, reporting on results of surveys at some strip mines. A few citations reference land reclamation techniques and efforts. (This updated bibliography contains 115 citations, 23 of which are new entries to the previous edition.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012741

PUBLICATION DATE: 84

TITLE: STUDIES OF EFFECTIVENESS OF COMMERCIAL HOME TREATMENT SYSTEMS.

PERSONAL AUTHOR: TRICE, W. W.; COUSER, R. D.

DESCRIPTOR: *FILTRATION; *FILTERS; *HOME TREATMENT SYSTEMS; *PERFORMANCE EVALUATION; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 23P. PRICE CODE: PC A02/MF A01. ORDER NO.: PB85-211720/WEP

ABSTRACT: Eleven home water systems were tested representing six different types of filtering systems. Tests were made for sulfates, nitrates, phosphate, iron and Enterobacter aerogenes before and after passing through a home treatment system. All of the systems removed nitrates, phosphates, and sulfate. Since none of the ground waters was contaminated by coliforms, nothing was established regarding the effectiveness of bacterial removal by these systems.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012743

PUBLICATION DATE: 85


DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANNOTATED BIBLIOGRAPHIES; *ARSENIC BIBLIOGRAPHIES; *MONITORING; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 260P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-862902/WEP

ABSTRACT: This bibliography contains citations concerning the toxicity, carcinogenicity, environmental pollution, and other hazards of arsenic. Environmental pollution assays, biological monitoring methods, and chemical assays for the detection of arsenic are among the topics considered. Pollution from coal fired and geothermal power plants is also discussed. (This updated bibliography contains 285 citations, none of which are new entries to the previous edition.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012744

PUBLICATION DATE: 85


DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANNOTATED BIBLIOGRAPHIES; *ARSENIC BIBLIOGRAPHIES; *COAL BIBLIOGRAPHIES; *ENVIRONMENTAL EFFECTS; *ENVIRONMENTAL POLLUTION; *PUBLIC HEALTH; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 158P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-862910/WEP

ABSTRACT: This bibliography contains citations concerning the toxicity, carcinogenicity, environmental pollution, and other hazards of arsenic. Environmental pollution assays, biological monitoring methods, and chemical assays for the detection of arsenic are among the topics considered. Pollution from coal fired and geothermal power plants is also discussed. (This updated bibliography contains 164 citations, all of which are new entries to the previous edition.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012745

PUBLICATION DATE: 85

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE TOXICITY, CARCINOGENICITY, ENVIRONMENTAL POLLUTION, AND OTHER HAZARDS OF NICKEL. ENVIRONMENTAL POLLUTION ASSAYS, BIOLOGICAL MONITORING METHODS, AND CHEMICAL ASSAYS FOR THE DETECTION OF NICKEL ARE DISCUSSED. THE TOXICITY OF NICKEL TO AQUATIC AND TERRESTRIAL FLORA AND FAUNA, INCLUDING MAN, ARE CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 183 CITATIONS, 90 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012749

PUBLICATION DATE: 85


DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *ENVIRONMENTAL EFFECTS; *METALS; *MONITORING; *NICKEL; *PUBLIC HEALTH; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 161P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-857936/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING RESEARCH AND EXPERIMENTATION OF TRIHALOMETHANES IN DRINKING...
ABSTRACT: This report presents the development of a microcomputer based data management system for wastewater treatment plants. The relational database model was shown to be well suited for data management applications in wastewater treatment plants. A general data management system was developed for use with a microcomputer using a commercially available relational database management system. Use of the developed system requires no special computer training. The system was tailored for use at the wastewater treatment plant at Springdale, Arkansas. The capabilities of the system were demonstrated with actual data from the Springdale plant.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ABSTRACT: This paper presents a set of simple models used to assess health risks based on toxicity, environmental mobility, and persistence. These models use a representative landscape in order to describe the steady-state distribution of arsenic, tritiated water, and TCDD as a result of continuous additions to soil. This information is used to assess potential exposures. Application of the screening model to three chemically different carcinogens reveals that the environmental health risk does not scale with direct measures of toxicity. As estimated here, the environmental health risk of TCDD relative to tritiated water and arsenic is roughly an order of magnitude less than its cancer potency relative to these compounds. The difference is attributable in large part to the immobility of TCDD relative to tritium and the lower persistence of TCDD compared to arsenic. The purpose is to present a simple procedure for using the relative behavior of toxic species under prototype conditions as a basis for risk management. 21 refs., 4 tabs. (EPA citation 85-025283)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ABSTRACT: This bibliography contains citations concerning the utilization of ozonation processes for wastewater disinfection. Topics include system descriptions and evaluations, comparisons with the chlorination process, reaction kinetics, and the use of the process in combination with other wastewater treatment methods. The treatment of organic and inorganic compounds in wastewater and municipal water supplies is discussed. This updated bibliography contains 249 citations, 14 of which are new entries to the previous edition.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ABSTRACT: This bibliography contains citations concerning the utilization of ozonation processes for wastewater disinfection. Topics include system descriptions and evaluations, comparisons with the chlorination process, reaction kinetics, and the use of the process in combination with other wastewater treatment methods. The treatment of organic and inorganic compounds in wastewater and municipal water supplies is discussed. This updated bibliography contains 249 citations, 14 of which are new entries to the previous edition.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ABSTRACT: This paper presents a set of simple models used to assess health risks based on toxicity, environmental mobility, and persistence. These models use a representative landscape in order to describe the steady-state distribution of arsenic, tritiated water, and TCDD as a result of continuous additions to soil. This information is used to assess potential exposures. Application of the screening model to three chemically different carcinogens reveals that the environmental health risk does not scale with direct measures of toxicity. As estimated here, the environmental health risk of TCDD relative to tritiated water and arsenic is roughly an order of magnitude less than its cancer potency relative to these compounds. The difference is attributable in large part to the immobility of TCDD relative to tritium and the lower persistence of TCDD compared to arsenic. The purpose is to present a simple procedure for using the relative behavior of toxic species under prototype conditions as a basis for risk management. 21 refs., 4 tabs. (EPA citation 85-025283)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ABSTRACT: This paper presents a set of simple models used to assess health risks based on toxicity, environmental mobility, and persistence. These models use a representative landscape in order to describe the steady-state distribution of arsenic, tritiated water, and TCDD as a result of continuous additions to soil. This information is used to assess potential exposures. Application of the screening model to three chemically different carcinogens reveals that the environmental health risk does not scale with direct measures of toxicity. As estimated here, the environmental health risk of TCDD relative to tritiated water and arsenic is roughly an order of magnitude less than its cancer potency relative to these compounds. The difference is attributable in large part to the immobility of TCDD relative to tritium and the lower persistence of TCDD compared to arsenic. The purpose is to present a simple procedure for using the relative behavior of toxic species under prototype conditions as a basis for risk management. 21 refs., 4 tabs. (EPA citation 85-025283)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ABSTRACT: This paper presents a set of simple models used to assess health risks based on toxicity, environmental mobility, and persistence. These models use a representative landscape in order to describe the steady-state distribution of arsenic, tritiated water, and TCDD as a result of continuous additions to soil. This information is used to assess potential exposures. Application of the screening model to three chemically different carcinogens reveals that the environmental health risk does not scale with direct measures of toxicity. As estimated here, the environmental health risk of TCDD relative to tritiated water and arsenic is roughly an order of magnitude less than its cancer potency relative to these compounds. The difference is attributable in large part to the immobility of TCDD relative to tritium and the lower persistence of TCDD compared to arsenic. The purpose is to present a simple procedure for using the relative behavior of toxic species under prototype conditions as a basis for risk management. 21 refs., 4 tabs. (EPA citation 85-025283)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

ABSTRACT: This paper presents a set of simple models used to assess health risks based on toxicity, environmental mobility, and persistence. These models use a representative landscape in order to describe the steady-state distribution of arsenic, tritiated water, and TCDD as a result of continuous additions to soil. This information is used to assess potential exposures. Application of the screening model to three chemically different carcinogens reveals that the environmental health risk does not scale with direct measures of toxicity. As estimated here, the environmental health risk of TCDD relative to tritiated water and arsenic is roughly an order of magnitude less than its cancer potency relative to these compounds. The difference is attributable in large part to the immobility of TCDD relative to tritium and the lower persistence of TCDD compared to arsenic. The purpose is to present a simple procedure for using the relative behavior of toxic species under prototype conditions as a basis for risk management. 21 refs., 4 tabs. (EPA citation 85-025283)
MINING) EFFLUENT STREAMS. CONSIDERATION IS GIVEN TO THE
REMOVAL, RECLAMATION, AND RECYCLING OF VARIOUS TRACE METALS,
HEAVY METALS, HYDROCARBONS, AND OILY WASTEWATERS TO MEET
REGULATORY AGENCY DISCHARGE OR IN-PLANT REUSE STANDARDS.
(THIS UPDATED BIBLIOGRAPHY CONTAINS 194 CITATIONS, 110 OF
WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012758

PUBLICATION DATE: 85

TITLE: WATER CHEMISTRY: ANALYSIS FOR HEAVY METALS. JUNE
1983-MAY 1985 (CITATIONS FROM THE SELECTED WATER RESOURCES
ABSTRACTS DATABASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANALYTICAL
BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CHEMISTRY; *ECOLOGY; *HEAVY
METALS; *METALS; *WATER QUALITY

DESCRIPTIVE NOTE: 85P. PRICE CODE: PC NO1/MF NO1. ORDER
NO.: PB85-80049/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING
WATER QUALITY PARAMETERS ON ON-STREAM AND OFF-STREAM SITES
WITH SPECIFIC REFERENCE TO HEAVY METAL CONTAMINATION.
METHODS FOR INDIVIDUAL AND SIMULTANEOUS MULTIELEMENT
DETERMINATIONS ARE DISCUSSED. INTERFERENCE EFFECTS AND
METHODS TO MINIMIZE THESE EFFECTS ARE EXPLAINED. THE
ECOLOGICAL CONSEQUENCES OF HEAVY METAL CONTAMINATION ARE
ALSO PRESENTED. (THIS BIBLIOGRAPHY CONTAINS 73 CITATIONS,
ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012760

PUBLICATION DATE: 85

TITLE: WATER CHLORINATION: CROSSROAD OF UNCERTAINTIES AND
DECISIONS.

PERSONAL AUTHOR: DAVIS, W. P.; AND ROBERTS, M. H.

DESCRIPTOR: *CARCINOGENS; *CHLORINATION; *CONFERENCE
PROCEEDINGS; *DISINFECTION; *WASTEWATER TREATMENT; *WATER
TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 85P. PRICE CODE: PC A02/MF A01. ORDER
NO.: PB85-156818/WEP

ABSTRACT: THIS OVERVIEW INTRODUCES PROCEEDINGS OF THE FIFTH
WATER CHLORINATION CONFERENCE CONVENED TO REVIEW TECHNICAL
REPORTS ON ALL ASPECTS OF THE USE OF CHLORINATION, ITS
BY-PRODUCTS AND ENVIRONMENTAL EFFECTS. AUTHORS RAISE
THE FOLLOWING ISSUES: (1) THE NEED TO BETTER DETECT, ANALYZE,
AND TRACK CARCINOGENIC AND MUTAGENIC BY-PRODUCTS; (2) THE
NEED TO BE ABLE TO MODERATE IF NOT MINIMIZE CHLORINATION TO
RATES THAT ARE REALISTIC FOR HIGH-USE WATERS AND TO BE ABLE
TO CALCULATE AND ANALYZE WHAT REALISTIC MEANS; (3) THE NEED
TO ASSESS AND TO ANTICIPATE THE POTENTIAL TO PRODUCE
CHLORINE RESISTANT PATHOGENS; AND (4) THE NEED TO EXAMINE
DISINFECTANT ALTERNATIVES, ESPECIALLY FOR MUNICIPAL AND
INDUSTRIAL TREATMENT, TO MINIMIZE OR PREVENT FORMATION OF
TOXIC BY-PRODUCTS IN THE CHLORINATION-REACTORS OF TREATMENT
PLANTS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012763

PUBLICATION DATE: 85

TITLE: WATER SCIENCE AND TECHNOLOGY BOARD ANNUAL REPORT,
1984.

DESCRIPTOR: *ANNUAL REPORTS; *ISSUES; *PROGRAM
DESCRIPTIONS; *REPORTS; *WATER SCIENCE AND TECHNOLOGY BOARD;
*WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 54P. PRICE CODE: PC A04/MF A01. ORDER
NO.: PB85-204485/WEP

ABSTRACT: THE REPORT IS THE SECOND ANNUAL REPORT OF THE
WATER SCIENCE AND TECHNOLOGY BOARD. IT SUMMARIZES THE
BOARD'S ACTIVITIES DURING 1984, ONGOING ACTIVITIES (I.E., IN
1985) AND FUTURE PLANS. INFORMATION IS INCLUDED ALSO ON
RESEARCH AND STUDY GROUP MEMBERSHIPS, PROGRAM ORGANIZATION,
ISSUES OF CONCERN, AND REPORTS PUBLISHED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285
PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012765

PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: REVIEW OF
SOLIDS HANDLING - SLIDES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGICAL TREATMENT;
*INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS
CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *SOLIDS
HANDLING; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 72 SLIDES. PRICE: $43.20. RENTAL:
$15.00

ABSTRACT: THESE ARE THE 35MM SLIDES TO GO WITH EW 012 071
AND EW 012 072 (PRINTED MATERIALS). THIS UNIT (WHICH
CONSISTS OF A SINGLE LESSON) SUMMARIZES AND REVIEWS MOST OF
THE SOLIDS HANDLING PROCESSES IN COMMON USE IN MUNICIPAL
TREATMENT PLANTS. AFTER COMPLETING THE UNIT STUDENTS SHOULD
BE ABLE TO BRIEFLY DESCRIBE HOW EACH SOLIDS HANDLING PROCESS
WORKS AND DESCRIBE ITS MAIN FUNCTION WITHIN THE SOLIDS
HANDLING PROGRAM. IN ADDITION, STUDENTS SHOULD BECOME AWARE
OF THE CRITICAL IMPORTANCE OF SOLIDS HANDLING TO THE OVERALL OPERATION AND EFFECTIVENESS OF THE TREATMENT PLANT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012766
PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: TRICKLING FILTERS - SLIDES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGICAL TREATMENT; *FILTERS; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *TRICKLING FILTERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PURCHASE: PART I - $12.00. PART II - $36.20. RENTAL: $15.00 EACH.

ABSTRACT: THESE ARE THE 35MM SLIDES TO GO WITH EW 012 074 AND EW 012 073. THE UNIT CONTAINS TWO LESSONS ON TRICKLING FILTERS. THE FIRST LESSON (STRUCTURE AND THEORY) COVERS AN INTRODUCTION TO TRICKLING FILTERS, COMPONENTS, MODES OF OPERATION, AND THE MICROBIOLOGY OF TRICKLING FILTERS (EMPHASIZING THE FACTORS THAT AFFECT GROWTH). THE SECOND LESSON COVERS THE OPERATION OF TRICKLING FILTERS. THE LABORATORY TESTS RECOMMENDED FOR INFLUENT AND EFFLUENT MONITORING ARE PRESENTED AND RELATED TO THE FACTORS AFFECTING BIOMASS GROWTH. CALCULATIONS REGARDING LOADING, RECIRCULATION, AND EFFICIENCY ARE PRESENTED AND PRACTICED. PLANT OBSERVATION AND MONITORING IS DISCUSSED WITH AN EMPHASIS ON AWARENESS AND IDENTIFICATION OF EXISTING AND POTENTIAL PROBLEMS. FINALLY, A NUMBER OF OPERATIONAL PROBLEMS ARE PRESENTED WITH CORRECTIVE MEASURES RECOMMENDED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012767
PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: FACULTATIVE LAGOONS - SLIDES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *FACULTATIVE LAGOONS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PURCHASE: PART I - $18.60. PART II - $23.40. RENTAL: $15.00 EACH.


AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012769
PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: CONCEPTS OF BIOLOGICAL TREATMENT - SLIDES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *FACULTATIVE LAGOONS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PURCHASE: PART I - $20.40. PART II - $21.60. PART III - $15.00. RENTAL: $15.00 EACH.

ABSTRACT: THESE ARE THE 35MM SLIDES TO GO WITH EW 012 075 AND EW 012 073 (PRINTED MATERIALS). THE UNIT PROVIDES AN INTRODUCTION TO BASIC CONCEPTS WHICH ARE APPLICABLE TO ALL BIOLOGICAL TREATMENT SYSTEMS. IT CONSISTS OF THREE LESSONS WHICH FOCUS ON: THE MICROORGANISM FOUND IN BIOLOGICAL
SYSTEMS: THE FACTORS THAT AFFECT THE GROWTH AND HEALTH OF BIOLOGICAL SYSTEMS; AND THE INTERRELATIONSHIP BETWEEN GROUPS OF MICROORGANISMS, THEIR COMPETITION, PREDOMINANCE, AND SYMBIOSIS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012770

PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: ACTIVATED SLUDGE - SLIDES.

DESCRIPTOR: *ACTIVATED SLUDGE; *AUDIOVISUAL AIDS; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PURCHASE: PART I - $24.00. PART II - $27.00. PART III - $18.00. RENTAL: $15.00 EACH.


AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012771

PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: ACTIVATED SLUDGE - SLIDES.

DESCRIPTOR: *ACTIVATED SLUDGE; *AUDIOVISUAL AIDS; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PURCHASE: PART I - $15.00. PART II - $22.20. PART III - $15.00. PART IV - $36.60. RENTAL: $15.00 EACH.

ABSTRACT: THESE ARE THE 35MM SLIDES TO GO WITH EW 012 084 AND EW 012 083 (PRINTED MATERIALS). THE UNIT CONTAINS SEVEN LESSONS ON ACTIVATED SLUDGE. TOPIC AREAS ADDRESSED IN THE LESSONS INCLUDE: (1) REVIEW OF ACTIVATED SLUDGE CONCEPTS AND

COMPONENTS (INCLUDING AERATION TANKS, AERATION SYSTEMS, CLARIFIERS, AND SLUDGE PUMPING SYSTEMS); (2) ACTIVATED SLUDGE VARIATIONS AND MODES; (3) BIOLOGICAL NATURE OF ACTIVATED SLUDGE; (4) SLUDGE QUALITY AND RESPIROMETRY FOR PROCESS CONTROL; (5) RETURN SLUDGE CONTROL; (6) WASTE SLUDGE CONTROL; AND (7) TREND CHARTS, TESTING, AND DATA MANAGEMENT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012772

PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: ACTIVATED BIO-FILTERS - SLIDES.

DESCRIPTOR: *ACTIVATED BIOLOGICAL FILTERS; *AUDIOVISUAL AIDS; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PURCHASE: $16.20. RENTAL: $15.00.


AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012773

PUBLICATION DATE: 84

TITLE: BIOLOGICAL TREATMENT PROCESS CONTROL: ROTATING BIOLOGICAL CONTACTORS (RBC'S) - SLIDES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BIOLOGICAL CONTACTORS; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *SLIDES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PURCHASE: $21.60. RENTAL: $15.00.

ABSTRACT: THESE ARE THE 35MM SLIDES FOR EW 012 087 AND EW 012 088 (PRINTED MATERIALS). THIS TWO-LESSON UNIT ON ROTATING BIOLOGICAL CONTACTORS (RBC'S) IS DESIGNED TO BE USED WITH STUDENTS WHO HAVE HAD SOME EXPERIENCE IN WASTEWATER TREATMENT AND A BASIC UNDERSTANDING OF BIOLOGICAL TREATMENT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212
**Title:** Biological Treatment Process Control: Aerobic Digestion

**Descriptor:** *Aerobic Digestion; Audiovisual Aids; Biological Treatment; Instructional Materials; Operations (Wastewater); Process Control; Postsecondary Education; Slides; Wastewater Treatment

**Descriptive Note:** Purchase: $36.00. Rental: $15.00.

**Abstract:** These are the 35mm slides to go with EW 012 089 and EW 012 090 (Printed Materials). This unit on aerobic sludge digestion covers the theory of the process, system components, factors that affect the process performance, standard operational concerns, indicators of steady-state operations and operational problems.

**Availability:** Environmental Quality Instructional Resources Center, 1200 Chambers Road, Room 310, Columbus, OH 43212

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**Title:** Biological Treatment Process Control: Oxidation Ditches

**Descriptor:** *Audiovisual Aids; Biological Treatment; Instructional Materials; Operations (Wastewater); Oxidation Ditches; Process Control; Postsecondary Education; Slides; Wastewater Treatment

**Descriptive Note:** Purchase: $20.40. Rental: $15.00.

**Abstract:** These are the 35mm slides to go with EW 012 091 and EW 012 092 (Printed Materials). The unit contains two lessons on oxidation ditches. The first lesson: Reviews the theory, structure, and components of the oxidation ditch system; discusses nitrification/denitrification and its importance to oxidation ditch operation; and outlines and explains process monitoring and process control techniques. The second lesson, which is more advanced, covers the topics of carbonaceous and nitrogenous oxidation and their importance on oxidation ditch process control.

**Availability:** Environmental Quality Instructional Resources Center, 1200 Chambers Road, Room 310, Columbus, OH 43212

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**Title:** Postcolumn Reaction Detectors for HPLC

**Personal Author:** Frei, Roland W.; and Others

**Descriptor:** *Analytical Techniques; Chromatography; Equipment; Liquid Chromatography; Laboratory Procedures; Instrumentation

**Descriptive Note:** 1529A-39AP.

**Abstract:** Derivatization techniques can convert LC analytes with poor detection properties into compounds that can be detected with high sensitivity.

**Availability:** Analytical Chemistry; V57 N14

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**Title:** Closing the Gap--1984 Wastewater Salaries

**Personal Author:** Regan, Kathleen

**Descriptor:** *Fringe Benefits; Personnel; Salaries; Trends; Wastewater Treatment

**Descriptive Note:** 12-20P.

**Abstract:** Presented are data on salaries of selected wastewater treatment occupations from a 1984 survey. Salaries for wastewater treatment employees showed a substantial increase from 1982 to 1984, bringing their salaries more in line with other public service employees. Variables related to salaries are also reported.

**Availability:** Operations Forum; V2 N10

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**Title:** PCB's in Treatment Plants

**Personal Author:** Banoub, Adel

**Descriptor:** *Accident Prevention; PCB's; Safety; Toxic Substances

**Descriptive Note:** 24-25P.

**Abstract:** PCB's can be released from such items as transformers and capacitors. Some suggestions on ways to avoid problems and what to do if you have contamination are presented.

**Availability:** Operations Forum; V2 N10

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ABSTRACT: HOSPITAL PERSONNEL MAY BE EXPOSED TO CHEMICALS THAT ARE POTENTIAL REPRODUCTIVE AND CARCINOGENIC HAZARDS. WASTE ANESTHETIC GASES, STERILANTS, ANTINEOPLASTIC DRUGS, METHYL METHACRYLATE, ASBESTOS AND VARIOUS ORGANIC REAGENTS AND SOLVENTS CAN CAUSE BIOLOGICAL DAMAGE. THIS PAPER REVIEWS THE POTENTIAL HEALTH HAZARDS.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V48 N2

IRIS ACCESSION NUMBER: EW012792
PUBLICATION DATE: 85
TITLE: THE CONTRIBUTION OF TRAINING TECHNOLOGIES TO PRODUCTIVITY.
PERSONAL AUTHOR: SPILLER, REX
DESCRIPTOR: *EDUCATIONAL TECHNOLOGY; *INSTRUCTIONAL DESIGN; *PRODUCTIVITY; *TRAINING
DESCRIPTIVE NOTE: 64-66P.
ABSTRACT: WITHOUT PRACTICAL APPLICATION IN INDUSTRY, THE EMERGING TECHNOLOGIES NOW BEING EMBRACED BY THE ACADEMIC WORLD COULD BE CONSIDERED MERE CURIOSITIES. SUCH IS NOT THE CASE, HOWEVER, AS ILLUSTRATED BY THE ISSUES ADDRESSED, INCLUDING THE FOCUS OF INSTRUCTIONAL TECHNOLOGY ON LEARNERS AND IMPLEMENTATION CONCERNS.
AVAILABILITY: TECHNOLOGICAL HORIZONS IN EDUCATION JOURNAL; V13 N1

IRIS ACCESSION NUMBER: EW012793
PUBLICATION DATE: 85
TITLE: ELECTRONIC TEXT: THE UNIVERSITY OF WISCONSIN EXPERIENCE.
PERSONAL AUTHOR: PFAEHLER, BRENDA
DESCRIPTOR: *COMPUTER APPLICATIONS; *COSTS; *EDUCATIONAL TECHNOLOGY; *EDUCATIONAL RESEARCH; *PROGRAM EVALUATION; *TECHNOLOGY; *TELETEXT; *VIDEOTEX
DESCRIPTIVE NOTE: 67-70P.
ABSTRACT: TO DISSOLVE MUCH OF THE CONFUSION SURROUNDING VIDEOTEX AND TELETEXT, AND THE RESPECTIVE MERITS OF THESE EMERGING TECHNOLOGIES FOR EDUCATION, THE ANNENBERG FOUNDATION JOINED WITH THE CORPORATION FOR PUBLIC BROADCASTING TO CONDUCT CONTROLLED COMPARISON TESTS. RESULTS OF THE PROJECT ARE DESCRIBED.
AVAILABILITY: TECHNOLOGICAL HORIZONS IN EDUCATION JOURNAL; V13 N1

IRIS ACCESSION NUMBER: EW012794

PUBLICATION DATE: 85

TITLE: PITTING IN COPPER WATER TUBING.

PERSONAL AUTHOR: ROSSUM, JOHN R.

DESCRIPTOR: *COPPER PIPES; *HOMES; *INTERNAL PITTING; *MAINTENANCE; *PIPES; *WATER PIPES

DESCRIPTIVE NOTE: 70-73P.

ABSTRACT: LEAKS CAUSED BY CORROSION OF COPPER TUBING IN NEW HOMES RESULTED FROM A FAILURE TO THOROUGHLY FLUSH THE PLUMBING.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N10

IRIS ACCESSION NUMBER: EW012795

PUBLICATION DATE: FALL 1985

TITLE: A SYSTEMATIC APPROACH FOR EVALUATING THE QUALITY OF GROUND WATER MONITORING DATA.

PERSONAL AUTHOR: CAMPBELL, JILL I.; MABEY, WILLIAM R.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DATA EVALUATION; *DATA ANALYSIS; *GROUNDWATER; *LABORATORY PROCEDURES; *MONITORING; *FIELD MEASUREMENTS; *WATER QUALITY

DESCRIPTIVE NOTE: 58-62P.

ABSTRACT: THIS ARTICLE ADDRESSES AN APPROACH BEING DEVELOPED TO SYSTEMATICALLY EVALUATE THE QUALITY OF A GIVEN SET OF GROUNDWATER MONITORING DATA COLLECTED DURING SITE INVESTIGATION/REMEDIATION EFFORTS. THE SYSTEM CONSISTS OF A CHECKLIST OF CRITERIA, GROUPED INTO FOUR MAJOR CATEGORIES, WHICH CAN BE APPLIED TO LABORATORY OR FIELD MEASUREMENTS.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V5 N4

IRIS ACCESSION NUMBER: EW012796

PUBLICATION DATE: FALL 1985

TITLE: GEOPHYSICAL MONITORING OF GROUND WATER CONTAMINATION AROUND WASTE DISPOSAL SITES.

PERSONAL AUTHOR: GREENHOUSE, JOHN P.; MONIER-WILLIAMS, MARK

DESCRIPTOR: *CONTAMINATION; *DESIGN; *GROUNDWATER;

*LANDFILLS; *MONITORING; *POLUTION CONTROL; *WASTE DISPOSAL SITES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 63-69P.

ABSTRACT: THE POTENTIAL AND THE PROBLEMS FOR GEOPHYSICAL MONITORING PROGRAMS AT WASTE DISPOSAL SITES ARE DISCUSSED.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V5 N4

IRIS ACCESSION NUMBER: EW012797

PUBLICATION DATE: 85

TITLE: THROUGH PRIVATIZATION, INFRASTRUCTURE NEEDS CAN BE MET.

PERSONAL AUTHOR: BRUSNIGHAN, JOHN M.

DESCRIPTOR: *CAPITAL FUNDS; *COSTS; *CONSTRUCTION; *FACILITIES; *MAINTENANCE; *MARYLAND; *PRIVATIZATION; *OPERATIONS (WATER); *WATER STORAGE; *WATER SUPPLY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 58P.

ABSTRACT: DESCRIBED IS HOW PRIVATIZATION HELPED A MARYLAND SUBURBAN SANITARY COMMISSION TO MAINTAIN FINANCIAL FLEXIBILITY AND PERMIT SHIFTING CAPITAL FUNDS TO OTHER PURPOSES INCLUDING REPLACING WATER MAINS, SEWERS, AND OTHER INFRASTRUCTURE NEEDS.

AVAILABILITY: PUBLIC WORKS; V116 N11

IRIS ACCESSION NUMBER: EW012798

PUBLICATION DATE: 85

TITLE: COST AND ENERGY EFFICIENCIES FOR SMALL TREATMENT SYSTEMS.

PERSONAL AUTHOR: LEU, JAMES E.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *CASE HISTORIES; *CONSERVATION; *COSTS; *ENERGY CONSERVATION; *OPERATIONS (WASTEWATER); *RURAL AREAS; *URBAN AREAS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 67-68P.

ABSTRACT: REVIEWED ARE CASE HISTORIES FOR SEVERAL SMALL WASTEWATER TREATMENT SYSTEMS. ALTERNATIVES FOR SAVING COSTS AND ENERGY ARE CONSIDERED.

AVAILABILITY: PUBLIC WORKS; V116 N11

BEST COPY AVAILABLE
IRIS ACCESSION NUMBER: EW012799
PUBLICATION DATE: 85
TITLE: THE COST OF REPAIRING PIPE BREAKS.
PERSONAL AUTHOR: WASKI, THOMAS M.
DESCRIPTOR: *COSTS; *MAINTENANCE; *OPERATIONS (WATER); *PIPES; *WATER PIPES; *WATER DISTRIBUTION
DESCRIPTIVE NOTE: 69-70P.
ABSTRACT: DATA ON COSTS FOR REPAIRING PIPES WAS ASSEMBLED AND ANALYZED. THE INFORMATION CAN BE USED TO HELP BUDGET FUNDS FOR REPAIRS AND ALSO TO DETERMINE THE NEED FOR PIPE REPLACEMENT.
AVAILABILITY: PUBLIC WORKS; V116 NII

IRIS ACCESSION NUMBER: EW012798
PUBLICATION DATE: 85
TITLE: AGGRESSIVE MAINTENANCE.
PERSONAL AUTHOR: SANTY, LOUIS BARY
DESCRIPTOR: *FLORIDA; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PREVENTIVE MAINTENANCE; *PLANNING; *SEwers; *TRAINING; *WASTEWATER COLLECTION
DESCRIPTIVE NOTE: 16-19P.
ABSTRACT: DESCRIBED IS AN AGGRESSIVE PREVENTIVE MAINTENANCE PROGRAM USED BY THE ST. PETERSBURG (FLORIDA) UTILITIES MAINTENANCE DIVISION. THE PROGRAM HAS SUBSTANTIALLY REDUCED EMERGENCY REPAIRS OF SEWERS.
AVAILABILITY: OPERATIONS FORUM; V2 NII

IRIS ACCESSION NUMBER: EW012800
PUBLICATION DATE: 85
TITLE: HAZARDOUS WASTE IN MUNICIPAL LANDFILLS: THE PROBLEM, ITS REGULATION.
PERSONAL AUTHOR: GRAHAM, STEPHEN J.
DESCRIPTOR: *HAZARDOUS WASTES; *LANDFILLS; *LEGISLATION; *PERMITS; *PERMITTING PROCESS; *MUNICIPALITIES; *PROBLEMS; *REGULATIONS; *RCRA
DESCRIPTIVE NOTE: 73-75, 105-06P.
ABSTRACT: PROVIDED IS AN EXAMINATION OF THE RCRA PERMITTING PROCESS AND POTENTIAL LIABILITIES FOR LANDFILLS.
AVAILABILITY: PUBLIC WORKS; V116 NII

IRIS ACCESSION NUMBER: EW012802
PUBLICATION DATE: 85
TITLE: PLANNING AND IMPLEMENTING A DUAL DISTRIBUTION SYSTEM.
PERSONAL AUTHOR: GALLIER, W. THOMAS
DESCRIPTOR: *CONSERVATION; *COLORADO; *COSTS; *DUAL DISTRIBUTION SYSTEMS; *IRRIGATION; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *RECYCLING; *WATER REUSE; *WASTEWATER TREATMENT; *WATER TREATMENT; *WATER QUALITY; *WATER DISTRIBUTION; *WATER SUPPLY; *WATER RESOURCES
DESCRIPTIVE NOTE: 40-44P.
ABSTRACT: A COLORADO TOWN AUGMENTED ITS WATER SUPPLIES WITH TREATED WASTEWATER FOR IRRIGATION. THE TOWN WILL USE A DUAL DISTRIBUTION SYSTEM.
AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11

IRIS ACCESSION NUMBER: EW012804
PUBLICATION DATE: 85
TITLE: INFRARED SCANNING FINDS SEWER WEAK SPOTS.
PERSONAL AUTHOR: WEIL, CARY J.; COBLE, KENNETH L.
DESCRIPTOR: *DETECTION; *INFRARED; *MAINTENANCE; *MISSOURI; *MONITORING; *OPERATIONS (WASTEWATER); *SEwers; *WASTEWATER COLLECTION
DESCRIPTIVE NOTE: 12-15P.
ABSTRACT: DESCRIBED ARE INFRARED PROCEDURES USED TO DISCOVER WEAK AREAS IN SEWERS. THE ARTICLE Focuses ON ST. LOUIS, MISSOURI.
AVAILABILITY: OPERATIONS FORUM; V2 N11

IRIS ACCESSION NUMBER: EW012805
PUBLICATION DATE: 85
TITLE: POLYETHYLENE AND POLYBUTYLENE PIPE AND TUBING: A STATUS REPORT.
PERSONAL AUTHOR: CROWSON, DAVID L.; CHAMBERS, RICHARD
DESCRIPTOR: *PERFORMANCE EVALUATION; *PIPES; *POLYETHYLENE PIPE; *POLYBUTYLENE PIPE; *STANDARDS; *WATER DISTRIBUTION; *WATER PIPES
DESCRIPTIVE NOTE: 45-46P.
ABSTRACT: THIS ARTICLE PRESENTS A STATUS REPORT ON POLYETHYLENE AND POLYBUTYLENE PIPE AND TUBING. REVISED STANDARDS FOR POLYOLEFIN PIPE WILL INCORPORATE IMPROVEMENTS IN THE MATERIALS AND EXPERIENCE GAINED FROM THEIR USE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11

IRIS ACCESSION NUMBER: EW012806
PUBLICATION DATE: 85
TITLE: REUSING POWER PLANT COOLING WATER TO REDUCE MAIN BREAKS.
PERSONAL AUTHOR: WETTERING, LAWRENCE A.
DESCRIPTOR: *COSTS; *PERFORMANCE EVALUATION; *TEMPERATURE; WATER PIPES; *WATER PIPE BREAKS; *WISCONSIN; WATER SUPPLY; *WATER DISTRIBUTION; *WATER TREATMENT
DESCRIPTIVE NOTE: 47-52P.
ABSTRACT: WINTER WATER MAIN BREAKS IN A WISCONSIN COMMUNITY WERE REDUCED BY 33 PERCENT THROUGH THE USE OF WARM COOLING WATER FROM A POWER PLANT AS A RAW WATER SOURCE.
AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11

IRIS ACCESSION NUMBER: EW012807
PUBLICATION DATE: 85
TITLE: EMERGING TRENDS IN INFRASTRUCTURE FINANCING.
PERSONAL AUTHOR: BODDE, DAVID L.
DESCRIPTOR: *CAPITAL FUNDS; *FUNDING SOURCES; *FEDERAL ROLE; *LOCAL ROLE; *STATE ROLE; *WATER SUPPLY; *WASTEWATER TREATMENT; *WATER TREATMENT
DESCRIPTIVE NOTE: 52-56P.
ABSTRACT: DESCRIBED ARE SEVERAL ALTERNATIVES TO FEDERAL GRANTS FOR WATER RELATED CAPITAL PROJECTS.
AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11

IRIS ACCESSION NUMBER: EW012808
PUBLICATION DATE: 85
TITLE: PREDICTION OF ORGANIC CHEMICAL PERMEATION THROUGH PVC PIPE.
PERSONAL AUTHOR: BERENS, ALAN R.
DESCRIPTOR: *CHEMICALS; *CONTAMINATION; *GROUNDWATER; *ORGANIC CHEMICALS; *PERFORMANCE EVALUATION; *PVC PIPE; *PIPE LEAKS; *RESEARCH REPORTS; *WATER PIPES
DESCRIPTIVE NOTE: 57-65P.
ABSTRACT: REPORTED ARE STUDIES THAT SHOW THAT RIGID UNDERGROUND PVC PIPE IS VIRTUALLY IMPERMEABLE EXCEPT FOR GROSS SPILLS OR LEAKS OF STRONG SWELLING SOLVENTS. A SCIENTIST AND WATER SUPPLIERS DISCUSS THE FINDINGS OF THE AUTHOR.
AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11

IRIS ACCESSION NUMBER: EW012809
PUBLICATION DATE: 85
TITLE: LEAD DISSOLUTION FROM SOLDERED JOINTS.
PERSONAL AUTHOR: BIRDER, HUDSON H., JR.; AND OTHERS
DESCRIPTOR: *CONTAMINATION; *LEAD; *PERFORMANCE EVALUATION; *PIPES; *SOLDERED JOINTS; *WATER PIPES; *WATER DISTRIBUTION
DESCRIPTIVE NOTE: 66-70P.
ABSTRACT: PLUMBING RUNS SIMULATING SOLDERED JOINTS FOUND IN A HOME PRODUCED LEAD LEVELS IN EXCESS OF USEPA STANDARDS IF 50-50 LEAD SOLDER WAS USED.
AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11

IRIS ACCESSION NUMBER: EW012810
PUBLICATION DATE: 85
TITLE: IDENTIFYING WATER MAIN LEAKS WITH TRIHALOMETHANE TRACERS.
PERSONAL AUTHOR: HARGESHEIMER, ERIKA E.
DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY PROCEDURES; *WATER PIPE LEAKS; *TRIHALOMETHANE; *WATER DISTRIBUTION
DESCRIPTIVE NOTE: 71-75P.
ABSTRACT: DESCRIBED IS A WAY OF IDENTIFYING WATER MAIN LEAKS USING TRIHALOMETHANE TRACERS.
AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11
TAPING THE PC FOR PROCESS CONTROL.

DESCRIPTION: *COMPUTER APPLICATIONS; *MAINTENANCE; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *WATER TREATMENT; *WASTEWATER TREATMENT

ABSTRACT: DESCRIBED IS THE DEVELOPMENT OF A COMPUTER OPERATION TO ASSIST WATER AND WASTEWATER OPERATIONS IN AN ARIZONA COMMUNITY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V77 N11

A NATIONAL SURVEY OF SEWER IMPACT FEES.

PERSONAL AUTHOR: FRANK, JAMES E.; AND OTHERS

DESCRIPTION: *DEVELOPMENT; *FUNDS; *OPERATIONS (WASTEWATER); *PLANNING; *REVENUE; *SEWERS; *SEWER IMPACT FEES; *SURVEYS; *USER CHARGES; *WASTEWATER COLLECTION

ABSTRACT: THIS ARTICLE REPORTS THE RESULTS OF A NATIONAL SURVEY OF SEWER IMPACT FEES THAT IDENTIFIED 190 COMMUNITIES USING THIS REVENUE DEVICE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N11

DEVELOPMENT OF AN ON-LINE ZERO CHLORINE RESIDUAL MEASUREMENT AND CONTROL SYSTEM.

PERSONAL AUTHOR: FINGER, RICHARD E.; AND OTHERS

DESCRIPTION: *ANALYTICAL TECHNIQUES; *CHLORINE; *CHLORINE RESIDUAL; *DECHLORINATION; *DISINFECTION; *EFFLUENT; *INSTRUMENTS; *INSTRUMENTATION; *MEASUREMENT; *MONITORING

ABSTRACT: DESCRIBED IS A SYSTEM THAT USES PROVEN INSTRUMENT TECHNOLOGY, OVERCOMES LIMITATIONS IN MEASURING LOW CHLORINE RESIDUALS, AND AVOIDS ANALYZER FOULING DURING DECHLORINATION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N11

SMALL-DIAMETER, VARIABLE GRADE GRAVITY SEWERS.

PERSONAL AUTHOR: SIMMONS, JOHN D.; NEWMAN, JERRY O.

DESCRIPTION: *ALABAMA; *ALTERNATIVE TECHNOLOGY; *DESIGN; *COSTS; *LAGOONS; *OPERATIONS (WASTEWATER); *RURAL AREAS; *SEPTIC TANKS; *SEwers; *WASTEWATER COLLECTION

ABSTRACT: WORKABLE SYSTEMS CAN BE BUILT USING STANDARD DESIGN PROCEDURES, BUT PROPER MANAGEMENT AFTER INSTALLATION IS IMPORTANT. DESCRIBED IS AN ALABAMA COMMUNITY AND THE SYSTEM THEY DEVELOPED. RECOMMENDATIONS FOR THE DESIGN OF SIMILAR SYSTEMS ARE PRESENTED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N11

BACTERIOPHAGES AND FECAL BACTERIA AS INDICATORS OF CHLORINATION EFFICIENCY OF BIOLOGICAL TREATED WASTEWATER.

PERSONAL AUTHOR: HAVELAAR, A. H.; NIEUWSTAD, TH. J.

DESCRIPTION: *BACTERIA; *BACTERIOPHAGES; *BIOLOGICAL INDICATORS; *CHLORINATION; *COSTS; *DISINFECTION; NITRIFICATION; *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *VIRUSES; *WASTEWATER TREATMENT

ABSTRACT: AT HIGH DOSES NEEDED FOR VIRUS INACTIVATION PRODUCTION OF BYPRODUCTS AND THE COST OF DECHLORINATION BECOME PROHIBITIVE; THE SEARCH FOR ADDITIONAL DISINFECTANTS SHOULD CONTINUE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N11

APPLICATION OF POLYSULFIDE FOR PRETREATMENT OF SPENT CYANIDE LIQUORS.

PERSONAL AUTHOR: CANCEZARCZYK, J. J.; AND OTHERS

ABSTRACT: DESCRIBED IS A SYSTEM THAT USES PROVEN INSTRUMENT TECHNOLOGY, OVERCOMES LIMITATIONS IN MEASURING LOW CHLORINE RESIDUALS, AND AVOIDS ANALYZER FOULING DURING DECHLORINATION.
DESCRIPTOR: *CALCIUM POLYSULFIDE; *CYANIDES; *INDUSTRIAL WASTES; *METALS; *OPERATIONS (WASTEWATER); *PRETREATMENT; *RESEARCH REPORTS; *WASTEWATER TREATMENT; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 1089-93P.

ABSTRACT: CALCIUM POLYSULFIDE CONVERTS WASTE CYANIDES TO THIOCYANATES AND PRECIPITATES METALS TO LEVELS GENERALLY WITHIN SEWER USE ORDINANCES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N11

IRIS ACCESSION NUMBER: EW012817

PUBLICATION DATE: 85

TITLE: EPA DESIGN INFORMATION REPORT: CONSIDERATION OF FIRST-STAGE ORGANIC OVERLOADING IN ROTATING BIOLOGICAL CONTACTOR DESIGN.

PERSONAL AUTHOR: EVANS, FRANCIS L.

DESCRIPTORS: *BIOLOGICAL CONTACTORS; *DESIGN; *FACILITIES; *OVERLOADING; *OPERATIONS (WASTEWATER); *RESEARCH; *ROTATING BIOLOGICAL CONTACTORS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1094-98P.

ABSTRACT: DISCUSSED IS FIRST-STAGE ORGANIC OVERLOADING IN ROTATING BIOLOGICAL CONTACTORS. AS A RESULT OF RESEARCH AND EXPERIENCE, DESIGN RECOMMENDATIONS ARE PRESENTED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N11

IRIS ACCESSION NUMBER: EW012818

PUBLICATION DATE: 85

TITLE: COLORIMETRIC BACTERIA DETECTION.

DESCRIPTORS: *ANALYTICAL TECHNIQUES; *BACTERIA; *DRINKING WATER; *INSTRUMENTATION; *LABORATORY PROCEDURES; *WATER QUALITY

DESCRIPTIVE NOTE: 1, 5P.

ABSTRACT: DESCRIBED IS A COLORIMETRIC METHOD FOR RAPID DETERMINATION OF BACTERIA.

AVAILABILITY: BENCH SHEET; V7 N4

IRIS ACCESSION NUMBER: EW012819

PUBLICATION DATE: 85

TITLE: ALKALINITY/HARDNESS PROGRAM.

DESCRIPTORS: *ANALYTICAL TECHNIQUES; *ALKALINITY; *COMPUTER SOFTWARE; *HARDNESS; *LABORATORY PROCEDURES; *WATER QUALITY

DESCRIPTIVE NOTE: 5P.

ABSTRACT: LISTED IS A SHORT COMPUTER PROGRAM WRITTEN IN BASIC FOR CALCULATING RESULTS OF ALKALINITY AND HARDNESS TITRATIONS.

AVAILABILITY: BENCH SHEET; V7 N4

IRIS ACCESSION NUMBER: EW012820

PUBLICATION DATE: 85

TITLE: WASTEWATER FACILITIES SURVEYED.

PERSONAL AUTHOR: GRICE, RUSSELL

DESCRIPTORS: DEMOGRAPHIC DATA; EQUIPMENT; *FACILITIES; *LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; *OPERATIONS (WASTEWATER); *WASTEWATER ANALYSIS; *WASTEWATER TREATMENT; *SURVEYS

DESCRIPTIVE NOTE: 6-7P.

ABSTRACT: REPORTED ARE SELECTED RESULTS OF A SURVEY OF 11 CITIES REGARDING FACILITIES AND EQUIPMENT BEING USED FOR WASTEWATER ANALYSIS. SALARY COMPARISONS FOR STAFF ARE ALSO REPORTED.

AVAILABILITY: BENCH SHEET; V7 N4

IRIS ACCESSION NUMBER: EW012821

PUBLICATION DATE: 85

TITLE: ADAPTING SOFTWARE IMPROVES DIGITAL CONTROL.

PERSONAL AUTHOR: ESKRIDGE, ROBERT J.; HUTCHINSON, WILLIAM

DESCRIPTORS: *AUTOMATED CONTROLS; *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *PROCESS CONTROLS; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 22-25P.

ABSTRACT: THE CONCEPT OF STRUCTURED PROGRAMMING FOR COMPLEX SYSTEMS INCREASES THE RELIABILITY OF THE WHOLE BY ENSURING THE SUCCESS OF ITS PARTS. TWO EXAMPLES ARE GIVEN TO ILLUSTRATE THESE METHODS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N12

BEST COPY AVAILABLE
IRIS ACCESSION NUMBER: EW012822
PUBLICATION DATE: 85
TITLE: ULTRASONICS AND MICROCOMPUTERS MEASURE OPEN CHANNEL FLOW.
PERSONAL AUTHOR: SOLTZ, DAN
DESCRIPTOR: *FLOW MEASUREMENT; *FLOWMETERS; *FLUID FLOW; *INSTRUMENTATION; *MEASUREMENT
DESCRIPTIVE NOTE: 25-27P.
ABSTRACT: WEIRS AND FLUMES, LONG USED FOR MEASURING OPEN CHANNEL FLOW, GET AN ASSIST FROM NON-WETTED ULTRASONIC INSTRUMENTATION.
AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N12

IRIS ACCESSION NUMBER: EW012823
PUBLICATION DATE: 85
TITLE: SELECTING AND APPLYING MAGNETIC FLOWMETERING SYSTEMS.
PERSONAL AUTHOR: GRIFFIN, M. F.
DESCRIPTOR: *FLUID FLOW; *FLOWMETERS; *INSTRUMENTATION; *MAGNETIC FLOWMETERS
DESCRIPTIVE NOTE: 33-36P.
ABSTRACT: LIKE MOST HARDWARE, SOME MAGNETIC FLOWMETERS WORK BETTER AND LONGER IN ONE SPOT AS OPPOSED TO ANOTHER. TWO BASIC TYPES ARE REVIEWED.
AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N12

IRIS ACCESSION NUMBER: EW012824
PUBLICATION DATE: 85
TITLE: AUTOMATING THE WATER LAB---AND USING THE RESULTS.
PERSONAL AUTHOR: JONES, J. G.
DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AUTOMATION; *DRINKING WATER; *ENGLAND; *LABORATORY FACILITIES; *LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; *WATER QUALITY; *WATER TREATMENT
DESCRIPTIVE NOTE: 36-38P.
ABSTRACT: WITHIN THE SOMEWHAT CONSERVATIVE LIMITS OF THE WATER/WASTEWATER INDUSTRY, THIS AUTOMATED LAB IS UNUSUAL. THE LAB DESCRIBED IS OPERATED BY THE WESSEX WATER AUTHORITY IN SOUTHWEST ENGLAND.
AVAILABILITY: ENERGY MANAGEMENT TECHNOLOGY; V9 N8

IRIS ACCESSION NUMBER: EW012825
PUBLICATION DATE: 85
TITLE: EXPERIENCE IS FRAMEWORK OF INSTRUMENTATION MANUAL.
DESCRIPTOR: *GLOSSARIES; *INSTRUMENTATION; *MANUALS; *OPERATIONS (WASTEWATER); *TERMINOLOGY; *VOCABULARY; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 40, 42-45P.
ABSTRACT: COMMISSIONED BY THE USEPA, THE WASTEWATER TREATMENT PLANT INSTRUMENTATION HANDBOOK HAS JUST BEEN PUBLISHED. THE GLOSSARY OF TERMINOLOGY FROM THE END OF THE PUBLICATION IS REPRINTED.
AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N12

IRIS ACCESSION NUMBER: EW012826
PUBLICATION DATE: 85
TITLE: THINKING OF CONGENERATING? CALL IN THE CONSULTANTS.
PERSONAL AUTHOR: JAFEK, BEV
DESCRIPTOR: CALIFORNIA; *COGENERATION; COSTS; ENERGY CONSERVATION; *ENERGY PRODUCTION; *PLANNING; *POLLUTION CONTROL; *TECHNOLOGY; *REGULATIONS
DESCRIPTIVE NOTE: 12-15P.
ABSTRACT: DESCRIBED IS A COGENERATION PROJECT INVOLVING AN INDUSTRIAL PLANT IN CALIFORNIA. VARIOUS ELEMENTS IN PLANNING THE PROJECT ARE DISCUSSED.
AVAILABILITY: ENERGY MANAGEMENT TECHNOLOGY; V9 N8

IRIS ACCESSION NUMBER: EW012827
PUBLICATION DATE: 85
TITLE: GAS TURBINE HYBRIDS MEET NEW COGEN DEMANDS.
PERSONAL AUTHOR: JARBELIUS, ANDERS
DESCRIPTOR: *COGENERATION; *COSTS; *EQUIPMENT; *GAS TURBINE HYBRIDS; *MAINTENANCE; *TURBINES
DESCRIPTIVE NOTE: 10-20P.
ABSTRACT: THE COGENERATION MARKET MUST GEAR ITSELF FOR THE INCREASING DEMAND FOR MEDIUM TO SMALL-SIZED PROJECTS. A NEW HYBRID GAS TURBINE OFFERS COGENERATORS THE MAINTENANCE AND RELIABILITY ADVANTAGES OF HEAVY-DUTY UNITS WITH THE COMPACT,
LIGHTWEIGHT CONVENIENCE OF AERO DERIVATIVES.

AVAILABILITY: ENERGY MANAGEMENT TECHNOLOGY; V9 N8

IRIS ACCESSION NUMBER: EWO12826
PUBLICATION DATE: 85
TITLE: HOW TO INSURE A COGEN FACILITY.
PERSONAL AUTHOR: BROWN, ALAN
DESCRIPTOR: *COGENERATION; *EQUIPMENT; *FACILITIES; *INSURANCE; *POLLUTION; *PERSONNEL; *PROPERTY
DESCRIPTIVE NOTE: 22-24P.
ABSTRACT: MOST COGEN PROGRCTS ARE INSURABLE. TO BE ADEQUATELY INSURED, A COMPANY OR BUSINESS MUST CAREFULLY CALCULATE POTENTIAL RISKS AND COMPILE AN INSURANCE PORTFOLIO WHICH MATCHES THE PROJECTS REAL NEEDS. THIS ARTICLE DISCUSSES RISKS, INSURANCE, AND RESPONSIBILITIES.

AVAILABILITY: ENERGY MANAGEMENT TECHNOLOGY; V9 N8

IRIS ACCESSION NUMBER: EWO12829
PUBLICATION DATE: 85
TITLE: COGENERATION: A WINNING GAME FOR THE PLAYERS WHO RISK IT.
DESCRIPTOR: *COSTS; *DESIGN; *COGENERATION; *ENERGY CONSERVATION; *FINANCING; *FACILITIES; *MAINTENANCE; *EQUIPMENT; *OPERATIONS; *PLANNING; *PRIVATIZATION
DESCRIPTIVE NOTE: 26, 28P.
ABSTRACT: COGENERATION HOLDS OUT THE ATTRACTIVE PROSPECT OF LOWER UTILITY RATES AND AFFORDABLE ENERGY. "EXPERT" PLAYERS-THE COGEN DEVELOPERS-OFFER TO NEGOTIATE VARIOUS ASPECTS OF THE OPERATION AND GUARANTEE SUCCESS TO THOSE WILLING TO TAKE A CHANCE ON THEIR SERVICES. DESCRIBED ARE SOME FUNCTIONS OF ONE DEVELOPMENT COMPANY AND A DESCRIPTION OF ONE PROJECT.

AVAILABILITY: ENERGY MANAGEMENT TECHNOLOGY; V9 N8

IRIS ACCESSION NUMBER: EWO12830
PUBLICATION DATE: 85
TITLE: CURRENT STATUS IN USE OF FLEXIBLE EFFLUENT STANDARDS.
PERSONAL AUTHOR: LAMB, JAMES C.; HULL, DANIEL B.
DESCRIPTOR: *EFFLUENT; *STANDARDS; *SURVEYS; *STATE ROLE; *WASTEWATER DISCHARGE STANDARDS; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 992-98P.
ABSTRACT: THIS STUDY DESCRIBES RESULTS OF A RECENT SURVEY OF REGULATORY PRACTICES THAT WAS CONDUCTED TO UPDATE EARLIER INFORMATION. ALMOST ALL STATES USE FLEXIBLE STANDARDS NOW, AND OVER HALF EXPECT TO USE THEM MORE IN THE FUTURE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N10

IRIS ACCESSION NUMBER: EWO12831
PUBLICATION DATE: 85
TITLE: FACTORS CONTROLLING SENSITIVITY IN ULTRAVIOLET DISINFECTION OF SECONDARY EFFLUENTS.
PERSONAL AUTHOR: QULLS, ROBERT C.; AND OTHERS
DESCRIPTOR: *MUTAGENS; *OPERATIONS (WASTEWATER); *ORGANIC COMPOUNDS; *PERFORMANCE EVALUATION; *PILOT STUDIES; *RESEARCH REPORTS; *TOXIC SUBSTANCES; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 1006-11P.
ABSTRACT: THIS STUDY WAS UNDERTAKEN TO DETERMINE THE ABILITY OF CONVENTIONAL TREATMENT PROCESSES TO REMOVE MUTAGENICITY FROM MUNICIPAL WASTEWATER. RESULTS OF THE STUDY ARE REPORTED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N10

IRIS ACCESSION NUMBER: EWO12832
PUBLICATION DATE: 85
TITLE: START-UP OF A HIGH-PURITY, OXYGEN-ACTIVATED SLUDGE SYSTEM AT THE LOS ANGELES COUNTY SANITATION DISTRICTS' JINTS WFCF.
PERSONAL AUTHOR: WUNDERLICH, RICHARD; AND OTHERS
DESCRIPTOR: *ACTIVATED SLUDGE SYSTEMS; *CALIFORNIA; *EQUIPMENT TESTING; *MANUALS; *OPERATIONS (WASTEWATER); *PROGRAM DESCRIPTIONS; *PERSONNEL; *PERFORMANCE EVALUATION; *PROCESS EVALUATION; *START-UP; *TRAINING; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 1012-18P.
ABSTRACT: SEVERAL YEARS OF PLANNING AND PREPARATION PAID HIGH DIVIDENDS WHEN THE PROJECT ENTERED ITS FINAL PHASE-START-UP OF A FULL-SCALE OPERATION. EACH PHASE OF THE OPERATION IS DESCRIBED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N10
IRIS ACCESSION NUMBER: EW012833
PUBLICATION DATE: 85
TITLE: THE INFLUENCE OF WASTE ACTIVATED SLUDGE ON PRIMARY CLARIFIER OPERATION.
PERSONAL AUTHOR: ROSS, ROBERT D.; CRAWFORD, GEORGE V.
DESCRIPTOR: *ACTIVATED SLUDGE; *CANADA; *CLARIFIERS; *EFFLUENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 1022-26P.
ABSTRACT: NEITHER THE SIZE AND SHAPE OF THE PRIMARY CLARIFIER NOR THE ADDITION OF WASTE ACTIVATED SLUDGE HAD ANY EFFECT ON PRIMARY EFFLUENT QUALITY.
AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N10

IRIS ACCESSION NUMBER: EW012834
PUBLICATION DATE: 85
TITLE: ELIMINATION OF ODOR AT SIX MAJOR WASTEWATER TREATMENT PLANTS.
PERSONAL AUTHOR: WALTRIP, G. DAVID; SNYDER, EDWIN G.
DESCRIPTOR: *ODORS; *ODOR CONTROL; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 1027-32P.
ABSTRACT: A COMBINATION OF PREAERATION AND PACKED-TOWER SCRUBBING WITH CAUSTIC SODA FORMED THE BASIS FOR AN ODOR CONTROL STRATEGY.
AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V57 N10

IRIS ACCESSION NUMBER: EW012840
PUBLICATION DATE: 85
TITLE: LOCATING LEAKING UNDERGROUND STORAGE TANKS.
PERSONAL AUTHOR: TAINTER, DAVIES
DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *LEAK DETECTION; *MONITORING; *STORAGE TANKS; *UNDERGROUND STORAGE TANKS; *WATER POLLUTION CONTROL
DESCRIPTIVE NOTE: 11P.
ABSTRACT: DESCRIBED ARE PROBLEMS OF LEAKING UNDERGROUND STORAGE TANKS AND MEASURES ONE COMPANY IS TAKING TO PREVENT FURTHER POLLUTION FROM UNDERGROUND STORAGE TANKS.
AVAILABILITY: WATERWORLD NEWS; V1 N6

IRIS ACCESSION NUMBER: EW012841
PUBLICATION DATE: 85
TITLE: INVESTIGATING CONTAMINATED GROUNDWATER: AN INTERIM REPORT.
PERSONAL AUTHOR: SCHROETER, JOHN
DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *INVESTIGATIONS; *MINNESOTA; *MONITORING; *WATER POLLUTION CONTROL; *WATER QUALITY
DESCRIPTIVE NOTE: 12-13P.
ABSTRACT: REPORTED ARE THE PROCEDURES USED TO ANALYZE GROUNDWATER CONTAMINATION PROBLEMS IN MINNESOTA.
AVAILABILITY: WATERWORLD NEWS; V1 N6

IRIS ACCESSION NUMBER: EW012842
PUBLICATION DATE: 85
TITLE: THE RIGHT TO KNOW.
PERSONAL AUTHOR: KOWALSKY, MICHAEL J.
DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *COMPLIANCE; *HAZARDOUS MATERIALS; *LEGISLATION; *OCCUPATIONAL SAFETY; *REGULATIONS; *RIGHT TO KNOW; *SAFETY; *TOXIC SUBSTANCES; *TRAINING
DESCRIPTIVE NOTE: 14-15P.
ABSTRACT: THIS ARTICLE BRIEFLY PRESENTS SOME OF THE ITEMS TO CONSIDER REGARDING "RIGHT TO KNOW" LAWS AND THE USE OF CHEMICALS IN THE WORK PLACE. SEVERAL STEPS TO FOLLOW ARE OUTLINED, INCLUDING REQUIRED TRAINING.
AVAILABILITY: WATERWORLD NEWS; V1 N6

IRIS ACCESSION NUMBER: EW012843
PUBLICATION DATE: 85
TITLE: CONTAMINATION AFTERMATH: RELOCATING A CITY'S WELL FIELD.
PERSONAL AUTHOR: SEWARD, WILLIAM B., JR.
DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *HAZARDOUS WASTES; *LANDFILLS; *NEW JERSEY; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY; *WATER POLLUTION CONTROL; *WATER WELLS; *WELLS

BEST COPY AVAILABLE
DESCRIPTIVE NOTE: 16P.

ABSTRACT: DESCRIBED ARE CONTAMINATION PROBLEMS OF GROUNDWATER WELLS IN ATLANTIC CITY, N.J. THE PROBLEMS DEVELOPED DUE TO CONTAMINATION FROM LANDFILLS AND REQUIRED MOVING THE WELLS.

AVAILABILITY: WATERWORLD NEWS; VI N6

IRIS ACCESSION NUMBER: EW012844

PUBLICATION DATE: 85

TITLE: HIGHLY CORROSIVE ACID PUMPED WITHOUT A HITCH.

PERSONAL AUTHOR: MARCUS, EDWARD

DESCRIPTOR: *DRINKING WATER; *FLUORINE; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 17P.

ABSTRACT: DESCRIBED ARE PROCEDURES USED BY A WATER TREATMENT PLANT IN MASSACHUSETTS FOR PUTTING FLUORINE IN THE WATER. THE ACID USED AS A SOURCE OF FLUORINE IS HIGHLY CORROSIVE AND REQUIRES CARE IN HANDLING.

AVAILABILITY: WATERWORLD NEWS; VI N6

IRIS ACCESSION NUMBER: EW012845

PUBLICATION DATE: 85

TITLE: MAIN REHABILITATION IN RECORD TIME.

PERSONAL AUTHOR: HARPER, HAROLD

DESCRIPTOR: *CALCIUM CARBONATE; *MAINTENANCE; *MISSOURI; *OPERATIONS (WATER); *PIPES; *REHABILITATION; *WATER DISTRIBUTION; *WATER PIPES

DESCRIPTIVE NOTE: 18-19P.

ABSTRACT: DESCRIBED IS A PROJECT TO REHABILITATE WATER PIPES IN A MISSOURI COMMUNITY. THE PRIMARY PROBLEM WAS A BUILD-UP OF CALCIUM CARBONATE.

AVAILABILITY: WATERWORLD NEWS; VI N6

IRIS ACCESSION NUMBER: EW012846

PUBLICATION DATE: 85

TITLE: CORROSION PREVENTION AND CONTROL IN WATER TREATMENT AND SUPPLY SYSTEMS.

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

DESCRIPTIVE NOTE: 313P. PRICE: $42.00

ABSTRACT: THIS TEXT IS DESIGNED TO PROVIDE WATER TREATMENT MANAGERS AND OPERATORS WITH AN UNDERSTANDING OF THE CAUSES AND CONTROL OF CORROSION. PART I IS BASICALLY A GUIDANCE MANUAL FOR CORROSION CONTROL WITH SECTIONS ON HOW AND WHY CORROSION OCCURS AND THE BEST HANDLING METHODS. PART II REVIEWS VARIOUS MATERIALS USED IN THE INDUSTRY AND THEIR CORROSION CHARACTERISTICS, AS WELL AS MONITORING AND DETECTION TECHNIQUES.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, N.07656

IRIS ACCESSION NUMBER: EW012847

PUBLICATION DATE: 85

TITLE: CROSS-CONNECTION CONTROL TRAINING.

PERSONAL AUTHOR: CROMPTON, T. R.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICALS; *DETERGENTS; *HYDROCARBONS; *HERBICIDES; *ORGANIC COMPOUNDS; *PCB'S; *PESTICIDES; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 560P.

ABSTRACT: THIS VOLUME DRAWS TOGETHER AND SYSTEMATIZES THE BODY OF INFORMATION AVAILABLE WORLDWIDE ON THE OCCURRENCE OF ORGANIC SUBSTANCES IN WATER.
AND DETERMINATION OF ORGANICS IN ALL TYPES OF WATER AND EFFLUENTS. THE FOUR CHAPTERS IN THE WORK DEAL WITH HYDROCARBONS, DETERGENTS, PESTICIDES AND PCBs, AND HERBICIDES. IN ADDITION TO DISCUSSING THE ANALYSIS OF RIVER, SURFACE, AND UNDERGROUND WATERS AND POTABLE WATER, VARIOUS SECTIONS INCLUDE DISCUSSION OF OCEAN AND BEACH WATERS, SEWAGE AND TRADE EFFLUENTS, AND MUD AND STREAMS. THE ANALYSIS OF FISH, CRUSTACEAE, AND PLANT LIFE FOR ORGANIC POLLUTANTS IS ALSO DISCUSSED.

AVAILABILITY: JOHN WILEY AND SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW012850

PUBLICATION DATE: 85

TITLE: ECOLOGICAL CONSIDERATIONS IN WETLANDS.

PERSONAL AUTHOR: GODFREY, P.; AND OTHERS

DESRIPTOR: *CONFERENCE PROCEEDINGS; *DESIGN; *ECOLOGY; *ENGINEERING; *MANAGEMENT; *WETLANDS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 473P. PRICE: $27.50

ABSTRACT: THIS PUBLICATION CONTAINS A SERIES OF PAPERS THAT ADDRESS THE ENVIRONMENTAL CONSEQUENCES OF APPLYING MUNICIPAL WASTEWATER TO WETLANDS. THE PAPERS, MOST OF WHICH WERE PRESENTED AT A WORKSHOP HELD AT THE UNIVERSITY OF MASSACHUSETTS IN AMHERST ON JUNE 23-25, 1982, ARE PRESENTED IN THE FORM OF A PROCEEDINGS, FOLLOWED BY DISCUSSION SESSIONS. THE PROCEEDINGS ARE DIVIDED INTO SEVEN TOPICAL SESSIONS: ENGINEERING; ECOLOGY; ECOSYSTEM DYNAMICS; COMMUNITY CHANGES; ENVIRONMENTAL HEALTH; LONG-TERM EFFECTS; MANAGEMENT; AND SYNTHESIS AND CONCLUSIONS. THE ISSUES DISCUSSED INCLUDE WETLAND SYSTEMS FOR WASTEWATER TREATMENT; ENGINEERING APPLICATIONS; DESIGN AND USE OF ARTIFICIAL WETLANDS; WASTEWATER INPUT TO COASTAL WETLANDS; MANAGEMENT CONCERNS; VEGETATION IN WETLANDS RECEIVING SEWAGE EFFLUENT; AND MICROBIOLOGICAL STUDIES OF MUNICIPAL WASTE RELEASE TO AQUATIC ENVIRONMENTS.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 135 WEST 50TH STREET, NEW YORK, NY 10020

IRIS ACCESSION NUMBER: EW012851

PUBLICATION DATE: 85

TITLE: GROUND WATER POLLUTION CONTROL.

PERSONAL AUTHOR: CANTER, LARRY W.; KNOX, ROBERT C.

DESRIPTOR: *CASE STUDIES; *DECISION-MAKING; *GROUNDWATER; *RECOMMENDATIONS; *TECHNOLOGY; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 326P.
ABSTRACT: THIS PUBLICATION IS THE PROCEEDINGS OF A WORKSHOP HELD IN DUBLIN IN 1983.

AVAILABILITY: KLUWER ACADEMIC PUBLISHERS GROUP, PO BOX 322, AH DORDRECHT, HOLLAND

IRIS ACCESSION NUMBER: EW012854
PUBLICATION DATE: 84
TITLE: OCEAN DISPOSAL SYSTEMS FOR SEWAGE SLUDGE AND EFFLUENT.
DESCRIPTOR: *DESIGN; *ENGINEERING; *EFFLUENTS; *OCEAN DISPOSAL; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 126P.

ABSTRACT: THE PURPOSE OF THIS REPORT IS TO EXPLAIN HOW OCEAN DISPOSAL CAN BE DESIGNED AS AN ENGINEERING SYSTEM TO MEET WATER QUALITY REQUIREMENTS. THE WORK IS THE RESULT OF DISCUSSIONS FROM A 1981 NATIONAL RESEARCH COUNCIL SYMPOSIUM, WHICH WAS HELD TO ASSESS THE STATE OF KNOWLEDGE AND IDENTIFY ENGINEERING PROBLEMS ASSOCIATED WITH USING THE OCEAN AS A MEANS OF DISPOSING WASTEWATER AND SLUDGE. THIS REPORT DISCUSSES WASTEWATER CHARACTERISTICS OF IMPORTANCE TO TREATMENT AND DESCRIBES COMMONLY PRACTICED DISPOSAL TECHNIQUES AND THE SYSTEM ENGINEERING APPROACH FOR DESIGNING DISPOSAL TRANSPORTATION SYSTEMS.

AVAILABILITY: NATIONAL ACADEMY PRESS, 1201 CONSTITUTION AVE. N.W., WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW012855
PUBLICATION DATE: 85
TITLE: OPERATING THE ACTIVATED SLUDGE PROCESS.
PERSONAL AUTHOR: HARTLEY, K. J.
DESCRIPTOR: *ACTIVATED SLUDGE; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 117P. PRICE: $19.00

ABSTRACT: THE PURPOSE OF THIS BOOK IS TO EXPLAIN THE OPERATIONAL PRINCIPLES OF THE ACTIVATED SLUDGE PROCESS AND TO STIMULATE DEMAND FOR BETTER PERFORMANCE. THE AUTHOR EMPHASIZES UNDERSTANDING PROCESS BEHAVIOR AND SIMPLICITY OF OPERATION. THE TEXT DEVELOPED FROM THE OPERATING MANUALS WRITTEN FOR A SERIES OF QUEENSLAND TREATMENT PLANTS AND THE ASSOCIATED COMMISSIONING EXERCISES. BOTH NEW AND EXPERIENCED OPERATORS SHOULD FIND THIS BOOK ENLIGHTENING.

AVAILABILITY: GUTTERIDGE HASKINS AND DAVEY PTY. LTD., 87 WICKIAN TERRACE, BRISBANE, QUEENSLAND, 4000 AUSTRALIA

IRIS ACCESSION NUMBER: EW012856
PUBLICATION DATE: 85
TITLE: DESIGN MANUAL: SULFIDE AND CORROSION PREDICTION AND CONTROL.
PERSONAL AUTHOR: McLAREN, FREDERICK R.; HALL, GARY H.
DESCRIPTOR: *DESIGN; *CORROSION; *CORROSION CONTROL; *DESIGN MANUALS; *HYDROGEN SULFIDE; *PIPES; *WASTEWATER COLLECTION; *WATER DISTRIBUTION
DESCRIPTIVE NOTE: PRICE: $15.00

ABSTRACT: A PRACTICAL, "HOW-TO" DESIGN MANUAL THAT AIDS THE DESIGNER IN DETERMINING THE EXTENT OF HYDROGEN SULFIDE GENERATION AND THE EXTENT OF CORROSION IN A PIPE. THE TEXT INCLUDES DESIGN EXAMPLES, EASY TO USE FORMULAS, DESIGN CHARTS AND GRAPHS, AND OTHER USEFUL INFORMATION.

AVAILABILITY: AMERICAN CONCRETE PIPE ASSOCIATION, 8320 OLD COURTHOUSE RD., VIENNA, VA 22180

IRIS ACCESSION NUMBER: EW012857
PUBLICATION DATE: 85
TITLE: POLLUTION CONTROL FOR AGRICULTURE, SECOND EDITION.
PERSONAL AUTHOR: LOEHR, RAYMOND C.
DESCRIPTOR: *AGRICULTURE; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION CONTROL; *POSTSECONDARY EDUCATION
DESCRIPTIVE NOTE: 467P. PRICE: $44.00

ABSTRACT: IN THE YEARS SINCE THE FIRST EDITION OF THIS TEXT WAS WRITTEN, THERE HAS BEEN CONSIDERABLE PROGRESS AND NEW KNOWLEDGE IN SUCH AREAS AS BIOGAS RESIDUES, LAND TREATMENT AS A WASTE MANAGEMENT ALTERNATIVE, NONPOINT SOURCE MANAGEMENT PRACTICES, AND THE USE OF AGRICULTURAL RESIDUES AS SOIL CONDITIONER AND SUPPLEMENTAL ANIMAL FEED. IN UPDATING AND REVISIONING THE ORIGINAL CHAPTERS TO INCLUDE THIS NEW INFORMATION, THE SECOND EDITION ATTEMPTS TO IDENTIFY ENVIRONMENTAL PROBLEMS THAT RESULT FROM POORLY MANAGED AGRICULTURAL OPERATIONS AND THE ACTION THAT CAN BE TAKEN TO SUSTAIN A VIABLE AGRICULTURE. THE TEXT IS INTENDED FOR UPPER LEVEL UNDERGRADUATE OR GRADUATE-LEVEL COURSES AND CAN SERVE AS A USEFUL REFERENCE AND INTRODUCTION FOR INDIVIDUALS INTERESTED IN THIS TOPIC.

AVAILABILITY: ACADEMIC PRESS, INC., PUBLISHERS, ORLANDO, FL 32887

IRIS ACCESSION NUMBER: EW012858
PUBLICATION DATE: 85
TITLE: PRETREATMENT IMPLEMENTATION REVIEW TASK FORCE:

IRIS ACCESSION NUMBER: EW012859
PUBLICATION DATE: 85
TITLE: OCEAN DISPOSAL SYSTEMS FOR SEWAGE SLUDGE AND EFFLUENT.
DESCRIPTOR: *DESIGN; *ENGINEERING; *EFFLUENTS; *OCEAN DISPOSAL; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 126P.

ABSTRACT: THE PURPOSE OF THIS REPORT IS TO EXPLAIN HOW OCEAN DISPOSAL CAN BE DESIGNED AS AN ENGINEERING SYSTEM TO MEET WATER QUALITY REQUIREMENTS. THE WORK IS THE RESULT OF DISCUSSIONS FROM A 1981 NATIONAL RESEARCH COUNCIL SYMPOSIUM, WHICH WAS HELD TO ASSESS THE STATE OF KNOWLEDGE AND IDENTIFY ENGINEERING PROBLEMS ASSOCIATED WITH USING THE OCEAN AS A MEANS OF DISPOSING WASTEWATER AND SLUDGE. THIS REPORT DISCUSSES WASTEWATER CHARACTERISTICS OF IMPORTANCE TO TREATMENT AND DESCRIBES COMMONLY PRACTICED DISPOSAL TECHNIQUES AND THE SYSTEM ENGINEERING APPROACH FOR DESIGNING DISPOSAL TRANSPORTATION SYSTEMS.

AVAILABILITY: NATIONAL ACADEMY PRESS, 1201 CONSTITUTION AVE. N.W., WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW012855
PUBLICATION DATE: 85
TITLE: OPERATING THE ACTIVATED SLUDGE PROCESS.
PERSONAL AUTHOR: HARTLEY, K. J.
DESCRIPTOR: *ACTIVATED SLUDGE; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *POSTSECONDARY EDUCATION; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 117P. PRICE: $19.00

ABSTRACT: THE PURPOSE OF THIS BOOK IS TO EXPLAIN THE OPERATIONAL PRINCIPLES OF THE ACTIVATED SLUDGE PROCESS AND TO STIMULATE DEMAND FOR BETTER PERFORMANCE. THE AUTHOR EMPHASIZES UNDERSTANDING PROCESS BEHAVIOR AND SIMPLICITY OF OPERATION. THE TEXT DEVELOPED FROM THE OPERATING MANUALS WRITTEN FOR A SERIES OF QUEENSLAND TREATMENT PLANTS AND THE ASSOCIATED COMMISSIONING EXERCISES. BOTH NEW AND EXPERIENCED OPERATORS SHOULD FIND THIS BOOK ENLIGHTENING.

AVAILABILITY: GUTTERIDGE HASKINS AND DAVEY PTY. LTD., 87 WICKIAN TERRACE, BRISBANE, QUEENSLAND, 4000 AUSTRALIA

IRIS ACCESSION NUMBER: EW012856
PUBLICATION DATE: 85
TITLE: DESIGN MANUAL: SULFIDE AND CORROSION PREDICTION AND CONTROL.
PERSONAL AUTHOR: McLAREN, FREDERICK R.; HALL, GARY H.
DESCRIPTOR: *DESIGN; *CORROSION; *CORROSION CONTROL; *DESIGN MANUALS; *HYDROGEN SULFIDE; *PIPES; *WASTEWATER COLLECTION; *WATER DISTRIBUTION
DESCRIPTIVE NOTE: PRICE: $15.00

ABSTRACT: A PRACTICAL, "HOW-TO" DESIGN MANUAL THAT AIDS THE DESIGNER IN DETERMINING THE EXTENT OF HYDROGEN SULFIDE GENERATION AND THE EXTENT OF CORROSION IN A PIPE. THE TEXT INCLUDES DESIGN EXAMPLES, EASY TO USE FORMULAS, DESIGN CHARTS AND GRAPHS, AND OTHER USEFUL INFORMATION.

AVAILABILITY: AMERICAN CONCRETE PIPE ASSOCIATION, 8320 OLD COURTHOUSE RD., VIENNA, VA 22180

IRIS ACCESSION NUMBER: EW012857
PUBLICATION DATE: 85
TITLE: POLLUTION CONTROL FOR AGRICULTURE, SECOND EDITION.
PERSONAL AUTHOR: LOEHR, RAYMOND C.
DESCRIPTOR: *AGRICULTURE; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION CONTROL; *POSTSECONDARY EDUCATION
DESCRIPTIVE NOTE: 467P. PRICE: $44.00

ABSTRACT: IN THE YEARS SINCE THE FIRST EDITION OF THIS TEXT WAS WRITTEN, THERE HAS BEEN CONSIDERABLE PROGRESS AND NEW KNOWLEDGE IN SUCH AREAS AS BIOGAS RESIDUES, LAND TREATMENT AS A WASTE MANAGEMENT ALTERNATIVE, NONPOINT SOURCE MANAGEMENT PRACTICES, AND THE USE OF AGRICULTURAL RESIDUES AS SOIL CONDITIONER AND SUPPLEMENTAL ANIMAL FEED. IN UPDATING AND REVISIONING THE ORIGINAL CHAPTERS TO INCLUDE THIS NEW INFORMATION, THE SECOND EDITION ATTEMPTS TO IDENTIFY ENVIRONMENTAL PROBLEMS THAT RESULT FROM POORLY MANAGED AGRICULTURAL OPERATIONS AND THE ACTION THAT CAN BE TAKEN TO SUSTAIN A VIABLE AGRICULTURE. THE TEXT IS INTENDED FOR UPPER LEVEL UNDERGRADUATE OR GRADUATE-LEVEL COURSES AND CAN SERVE AS A USEFUL REFERENCE AND INTRODUCTION FOR INDIVIDUALS INTERESTED IN THIS TOPIC.

AVAILABILITY: ACADEMIC PRESS, INC., PUBLISHERS, ORLANDO, FL 32887

IRIS ACCESSION NUMBER: EW012858
PUBLICATION DATE: 85
TITLE: PRETREATMENT IMPLEMENTATION REVIEW TASK FORCE:
AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE: ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. 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 OF THEIR COURSES. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-19.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012863

PUBLICATION DATE: 85

TITLE: INSITUFORM AND OTHER SEWER REHABILITATION TECHNIQUES.

PERSONAL AUTHOR: OLSON, MICHAEL R.

DESCRIPTOR: #COSTS; #DESIGN; #INSITUFORM; #MAINTENANCE; #PERFORMANCE EVALUATION; #RECOMMENDATIONS; #REHABILITATION; #SEWERS; #SEWER REPAIRS; #WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 127P. PRICE: $8.62


AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012865

PUBLICATION DATE: 85

TITLE: ALTERNATIVE SEWER STUDIES.

DESCRIPTOR: #ALTERNATIVE TECHNOLOGY; #DESIGN; #HYDRAULICS; #OPERATIONS (WASTEWATER); #PERFORMANCE EVALUATION; #SLUDGE/WASTEWATER GASIFIER; #WASTEWATER COLLECTION; #PRESSURE SEWERS; #GRAVITY SEWERS

DESCRIPTIVE NOTE: 46P. PRICE: $3.76

ABSTRACT: AN EVALUATION OF DESIGN AND OPERATIONAL ASPECTS FOR TWO POPULAR ALTERNATIVE SEWERING TECHNIQUES, I.E., PRESSURE AND SMALL-DIAMETER GRAVITY SEWERS, WAS PERFORMED. THE RESULTS PROVIDED INSIGHTS USEFUL TO DESIGNERS OF THESE SYSTEMS WITH REGARD TO SULFIDE CONCENTRATIONS IN THESE SEWERS AND HYDRAULIC DESIGNS FOR DOWNHILL RUNS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012866

PUBLICATION DATE: 85

TITLE: FATE OF SELECTED METALS AND EMISSIONS FROM A SLUDGE/WASTEWATER GASIFIER.

PERSONAL AUTHOR: SORBO, N. W.; TCHOBANOGLOUS, G.

DESCRIPTOR: #AIR POLLUTION CONTROL; #EMISSIONS; #INCINERATION; #METALS; #PERFORMANCE EVALUATION; #PILOT
ABSTRACT: A study was conducted to quantify a pilot-scale sludge and wastewater gasification system for its gaseous, particulate and metal emissions. The gasifier produced up to 1800 MJ/hr using a fuel mixture of source-separated wastewater and sludge. Emissions varied between 15.1 and 16.5 ppm for CO, 1.09 and 12.7 ppm for hydrocarbons, 98.6 and 121 ppm for NOx, and 35.5 and 106 ppm for SO2. Particulate concentrations varied between 35.7 and 192.96 mg/dry standard cubic meter corrected to 12 percent CO2.

METALS BALANCE DATA INDICATED THAT Cd, Pb, and Zn increased in concentration (compared to the fuel) in gaseous materials leaving the gasifier, and that Cu, Cr, and Fe increased in concentration (compared to the fuel) in the char-ashes leaving the gasifier. The particulate emissions in the burned gas from the gasifier were less than the allowable limits for solid waste incineration.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012867

PUBLICATION DATE: 84

TITLE: GUIDELINES FOR OVERVIEWING CONSTRUCTION GRANT ACTIVITIES CONDUCTED UNDER THE INTERAGENCY AGREEMENT WITH THE CORPS OF ENGINEERS.

DESCRIPTOR: *CONSTRUCTION GRANTS; *CORPS OF ENGINEERS; *GUIDELINES; *INTERAGENCY AGREEMENTS; *PROGRAM EVALUATION; *REPORTING; *USEPA

DESCRIPTIVE NOTE: 23P. PRICE: $2.38

ABSTRACT: THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE GENERAL OPERATING GUIDANCE TO USEPA REGIONAL OFFICES AS WELL AS TO THE CORPS OF ENGINEERS DIVISION AND DISTRICT OFFICES IN DISCHARGING THEIR MANAGEMENT RESPONSIBILITIES IN OVERVIEWING ACTIVITIES CONDUCTED UNDER THE INTERAGENCY AGREEMENT ON PROJECTS FUNDED UNDER EPA'S CONSTRUCTION GRANTS PROGRAM. THE PUBLICATION CONTAINS THREE MAIN SECTIONS: (1) REPORTING, (2) OVERVIEWING, AND (3) APPENDICES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012868

PUBLICATION DATE: 84

TITLE: FINANCIAL CAPABILITY SUMMARY FOLDOUT: A SIMPLIFIED APPROACH.

DESCRIPTOR: *CONSTRUCTION; *COSTS; *ECONOMICS; *FINANCES; *GUIDEBOOK; *FACILITIES; *MANAGEMENT; *OPERATIONS

DESCRIPTIVE NOTE: 8P. PRICE: $1.42

ABSTRACT: YOUR COMMUNITY MAYBE PLANNING TO CONSTRUCT, OPERATE, AND/OR MANAGE A WASTEWATER TREATMENT SYSTEM OR OTHER COMMUNITY FACILITIES. THIS FOLDOUT PROVIDES AN APPROACH TO ANALYZING FINANCIAL CAPABILITY, AND IS INTENDED TO BE USED BY THE LOCAL OFFICIALS WHO ARE BEST ACQUAINTED WITH THEIR COMMUNITY, TOWN MANAGER, PUBLIC WORKS DIRECTOR, PLANNER, BUDGET OFFICER OR CLERK. A MORE COMPREHENSIVE ANALYTICAL APPROACH MAY BE FOUND IN EPA'S FINANCIAL CAPABILITY GUIDEBOOK (EW 011 329).

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012869

PUBLICATION DATE: 82

TITLE: A COMPILATION OF WATER QUALITY STANDARDS FOR MARINE WATERS.

DESCRIPTOR: *CLEAN WATER ACT; *COMPILATIONS; *MARINE WATERS; *POLICIES; *REFERENCE MATERIALS; *REGULATIONS; *STANDARDS; *STATE ROLE; *WATER QUALITY; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 544P. PRICE: $33.64

ABSTRACT: THIS COMPILATION OF MARINE WATER QUALITY STANDARDS HAS BEEN PREPARED IN COMPLIANCE WITH SECTION 304(A), (B) OF THE CLEAN WATER ACT AND SUPERcedes THE PREVIOUS PUBLICATION PRODUCED IN 1977. STANDARDS AS OF THIS DATE (1982) ARE LISTED ALPHABETICALLY BY STATE AND TERRITORY.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012870

PUBLICATION DATE: 85

TITLE: ILLEGAL DISPOSAL OF HAZARDOUS WASTE: DIFFICULT TO DETECT OR DETECT.

DESCRIPTOR: CALIFORNIA; *COMPLIANCE; *ENFORCEMENT; *HAZARDOUS WASTES; ILLINOIS; MASSACHUSETTS; NEW JERSEY; *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *REGULATIONS; USEPA; *WASTE DISPOSAL; *WASTE MANAGEMENT; *WASTE TREATMENT

DESCRIPTIVE NOTE: 77P. SINGLE COPIES FREE OF CHARGE AS LONG AS SUPPLY LASTS.

ABSTRACT: CAO REVIEWED EFFORTS TO DETER ILLEGAL DISPOSALS OF HAZARDOUS WASTES IN FOUR STATES. THIS REPORT PROVIDES INFORMATION ON THE EXTENT TO WHICH (1) THE USEPA AND THESE STATES HAVE KNOWLEDGE OF ILLEGAL DISPOSALS, (2) REGULATORY
ABSTRACT: This report describes how value engineering can be extended to more grant-funded wastewater treatment projects to reduce construction costs and thereby help fund the $109 billion worth of additional treatment projects that the Environmental Protection Agency estimates will be needed by the year 2000. GAO found that value engineering techniques were seldom used on treatment projects when there was no federal or state requirement to do so.

AVAILABILITY: US General Accounting Office, Document Handling and Information Services Facility, P.O. Box 6015, Gaithersburg, MD 20877

IRIS ACCESSION NUMBER: EW012873

TITLE: REVIEW OF GROUND WATER PROTECTION STRATEGY RECENTLY PROPOSED BY THE ENVIRONMENTAL PROTECTION AGENCY.

DESCRIPTOR: *CONGRESSIONAL HEARINGS; *GROUNDWATER; *HOUSE OF REPRESENTATIVES; *POLICIES; *USEPA; *WATER RESOURCES; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 61IP.

ABSTRACT: This publication presents the hearings before a subcommittee of the Committee on Government Operations of the House of Representatives on April 11 and 12, 1984. Testimony of various people and printed materials submitted are included.


IRIS ACCESSION NUMBER: EW012874


DESCRIPTOR: *PUBLIC HEALTH; *CONGRESSIONAL HEARINGS; *DRINKING WATER; *ENVIRONMENT; *POLICIES; *PUBLIC WORKS; *REGULATIONS; *SAFE DRINKING WATER AMENDMENTS; *WATER RESOURCES; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 27IP.

ABSTRACT: This is a printed record of the hearing before the subcommittee on toxic substances and environmental oversight of the Committee on Environment and Public Works of the U.S. Senate on March 21, 1984 regarding the safe drinking water amendments of 1985. Testimony of witnesses and printed materials are included.

IRIS ACCESSION NUMBER: EW012875
PUBLICATION DATE: 85
TITLE: AMENDING THE CLEAN WATER ACT.
DESCRIPTOR: *CONGRESSIONAL HEARINGS; *CLEAN WATER ACT; ENVIRONMENT; *POLICIES; *REGULATIONS; WATER TREATMENT; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL
DESCRIPTIVE NOTE: 667P.
AVAILABILITY: US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC

IRIS ACCESSION NUMBER: EW012876
PUBLICATION DATE: 85
TITLE: EPA'S ASBESTOS REGULATIONS.
DESCRIPTOR: *ASBESTOS; *CONGRESSIONAL HEARINGS; *FEDERAL ROLE; *OFFICE OF MANAGEMENT AND BUDGET; *POLICIES; *POLLUTION CONTROL; *REGULATIONS; USEPA
DESCRIPTIVE NOTE: 703P.
AVAILABILITY: US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC

IRIS ACCESSION NUMBER: EW012877
PUBLICATION DATE: 84
TITLE: PROCESS DESIGN MANUAL FOR LAND TREATMENT OF MUNICIPAL WASTEWATER. SUPPLEMENT ON RAPID INFILTRATION AND OVER LAND FLOW.
DESCRIPTOR: DESIGN; CONSTRUCTION; DESIGN MANUALS; FACILITIES; LAND USE; LAND TREATMENT; OPERATIONS; WASTEWATER; OVERLAND FLOW; PLANNING; RAPID INFILTRATION; WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 121P. FREE WHILE SUPPLY LASTS.
AVAILABILITY: USEPA, CENTER FOR ENVIRONMENTAL RESEARCH INFORMATION, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW012880
PUBLICATION DATE: 80
TITLE: WASTEWATER IRRIGATION OF RICE.
DESCRIPTOR: *AGRICULTURE; *EFFLUENT; *IRRIGATION; *RECOMMENDATIONS; *PUBLIC HEALTH; *RECYCLING; WATER TREATMENT; WASTEWATER REUSE; WATER RESOURCES; WATER QUALITY
DESCRIPTIVE NOTE: 22P. PRICE: $2.32
ABSTRACT: THIS PUBLICATION REPORTS ON (1) THE POTENTIAL FOR AND THE EXTENT OF WASTEWATER REUSE IN RICE PRODUCTION (2) THE RESULTING FOOD CHAIN EFFECTS AND (3) THE COST EFFECTIVENESS OF THIS REUSE.
AVAILABILITY: EO/IRC, 1200 CHAMBERS RD., ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW012881
PUBLICATION DATE: 83
TITLE: PROCEEDINGS OF CONFERENCE ON INORGANICS IN DRINKING WATER AND CARDIOVASCULAR DISEASE HELD AT AMHERST, MASSACHUSETTS, MAY 1985.
PERSONAL AUTHOR: CALABRESE, E. J.; AND OTHERS
DESCRIPTOR: *CARDIOVASCULAR DISEASE; *CONFERENCE PROCEEDINGS; DRINKING WATER; DISEASES; MINERALS; PUBLIC HEALTH; REGULATIONS; SODIUM; WATER TREATMENT
DESCRIPTIVE NOTE: 492P. PRICE CODE: PC A19/MF A01. ORDER NO.: PB85-216513/WEP

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CHROMATOGRAPHY; *LABORATORY PROCEDURES; *ORGANIC COMPOUNDS

DESCRIPTIVE NOTE: 203P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-C67786/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING HIGH-PERFORMANCE (OR HIGH-PRESSURE OR HIGH-SPEED) LIQUID CHROMATOGRAPHIC TECHNIQUES AND APPLICATIONS. THE CHARACTERIZATION, ANALYSIS, DETECTION, AND SEPARATION OF VARIOUS SUBSTANCES (INCLUDING ORGANIC COMPOUNDS SUCH AS POLYCYCLIC AROMATIC COMPOUNDS, WATER, POLLUTANTS, AND WASTES) ARE CONSIDERED. THIS UPDATED BIBLIOGRAPHY CONTAINS 195 CITATIONS, 122 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012882
PUBLICATION DATE: 85

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CHROMATOGRAPHY; *LABORATORY PROCEDURES; *ORGANIC COMPOUNDS

DESCRIPTIVE NOTE: 203P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-C67786/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING HIGH-PERFORMANCE (OR HIGH-PRESSURE OR HIGH-SPEED) LIQUID CHROMATOGRAPHIC TECHNIQUES AND APPLICATIONS. THE CHARACTERIZATION, ANALYSIS, DETECTION, AND SEPARATION OF VARIOUS SUBSTANCES (INCLUDING ORGANIC COMPOUNDS SUCH AS POLYCYCLIC AROMATIC COMPOUNDS, WATER, POLLUTANTS, AND WASTES) ARE CONSIDERED. THIS UPDATED BIBLIOGRAPHY CONTAINS 195 CITATIONS, 122 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012883
PUBLICATION DATE: 85
TITLE: EFFECTS OF LAND USE PRACTICES ON WATER RESOURCES IN VIRGINIA.

PERSONAL AUTHOR: JONES, R. C.; HOLMES, B. H.

DESCRIPTOR: *AGRICULTURE; *FORESTRY; *LAND USE; *MANAGEMENT; *RESEARCH NEEDS; *URBAN AREAS; *VIRGINIA; *WATER RESOURCES

DESCRIPTIVE NOTE: 137P. PRICE CODE: PC A07/MF A01. ORDER NO.: PB85-216927/WEP

ABSTRACT: THE STUDY REVIEWS THE RELATIONSHIP BETWEEN LAND USE AND WATER RESOURCES IN VIRGINIA. IT EXAMINES THREE MAJOR LAND USES IN THE STATE—AGRICULTURAL, URBAN, AND FORESTRY ACTIVITIES. FOR EACH LAND USE, THE RELEVANT LITERATURE AND STATE MANAGEMENT PROGRAMS ARE REVIEWED. IN ADDITION, THE REPORT OUTLINES RESEARCH NEEDS IN EACH AREA.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012885
PUBLICATION DATE: 85

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *FISH; *HEAVY METALS; *METALS; *CONTAMINATION; PHYSIOLOGY

DESCRIPTIVE NOTE: 122P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB85-866200/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING DISTRIBUTION AND BIOACCUMULATION OF HEAVY METALS IN MARINE AND FRESHWATER FISH. SURVEYS, TOXICOLOGICAL EFFECTS, MECHANISMS OF ACCUMULATION, AS WELL AS TEMPERATURE AND CONCENTRATION EFFECTS ARE DISCUSSED. THIS UPDATED BIBLIOGRAPHY CONTAINS 119 CITATIONS, 49 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012886
PUBLICATION DATE: 85
ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THEORETICAL ASPECTS AND INDUSTRIAL APPLICATIONS OF ACTIVATED CHARCOAL. TOPICS INCLUDE ABSORPTION CAPACITY AND MECHANISM STUDIES, KINETIC AND THERMODYNAMIC ASPECTS, AND PROPERTIES DESCRIPTIONS AND EVALUATIONS. APPLICATIONS INCLUDE UTILIZATION IN WATER ANALYSES AND WASTE TREATMENT, AIR POLLUTION CONTROL AND MEASUREMENT, AND IN NUCLEAR FACILITIES. (THIS UPDATED BIBLIOGRAPHY CONTAINS 104 CITATIONS, 26 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION).

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW012891
PUBLICATION DATE: 85
TITLE: A SLUDGE MANAGEMENT METHOD GETS UPDATES.
PERSONAL AUTHOR: ROBINSON, JOHN H., JR.; KUCHENRITHER, RICHARD D.
DESCRIPTOR: *COMPOSTING; *FACILITIES; *RECYCLING; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 24-27P.

ABSTRACT: FUNDAMENTAL COMPOSTING PRINCIPLES REMAIN, BUT TRADITIONAL METHODS ARE BEING MODIFIED IN THE ENGINEERING OF MODERN FACILITIES. SOME PROCEDURES BEING USED ARE DESCRIBED.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N13

IRIS ACCESSION NUMBER: EW012892
PUBLICATION DATE: 85
TITLE: PILOT STUDIES INDICATE COMPOSTING CHOICES.
PERSONAL AUTHOR: DONOVAN, JOHN II., JR.
DESCRIPTOR: *COMPOSTING; *PILOT PROJECTS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RECYCLING; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *SLUDGE; *SEWAGE SLUDGE
DESCRIPTIVE NOTE: 28-31P.

ABSTRACT: A NUMBER OF ACTUAL PILOT SCALE PROJECTS WERE USED TO DEMONSTRATE HOW DIFFERENT SLUDGE COMPOSTING OBJECTIVES WOULD BE MET. SEVERAL OF THE PROJECTS ARE DESCRIBED.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N13
IRIS ACCESSION NUMBER: EW012893
PUBLICATION DATE: 85
TITLE: SMALL PLANT CAPTURES GAS ECONOMICALLY.
PERSONAL AUTHOR: HERINGTON, GORDON
DESCRIPTOR: *DIGESTER CAS; *ENERGY; *ENERGY RECOVERY; *EQUIPMENT; *METHANE; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 32-34P.
ABSTRACT: A USED PROPANE GAS TANK PROVIDES THE SOLUTION TO A WASTEWATER PLANTS' DIGESTER GAS UTILIZATION PROBLEM.
AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N13

IRIS ACCESSION NUMBER: EW012894
PUBLICATION DATE: 85
TITLE: COST-SAVING INSTRUMENT IMPROVES WATER QUALITY.
DESCRIPTOR: *INSTRUMENTATION; *MONITORING; *WATER QUALITY; *WATER TREATMENT
DESCRIPTIVE NOTE: 35, 41P.
ABSTRACT: A STREAMING CURRENT DETECTOR REQUIRES NO ADJUSTMENT, MAINTENANCE OR CHEMICALS FOR OPERATION-AND IT NEVER TAKES A BREAK.
AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V132 N13

IRIS ACCESSION NUMBER: EW012900
PUBLICATION DATE: 85
TITLE: AUDIENCE ANALYSIS
PERSONAL AUTHOR: HON, DAVID
DESCRIPTOR: *AUDIOVISUAL AIDS; *AUDIENCE ANALYSIS; *INSTRUCTIONAL MATERIALS; *INSTRUCTION; *VIDEO INSTRUCTION
DESCRIPTIVE NOTE: 63-64P.
ABSTRACT: THIS ARTICLE STRESSES WAYS TO DEVELOP VIDEO INSTRUCTION FOR APPROPRIATE AUDIENCES.
AVAILABILITY: E-I TV; V17 N11

IRIS ACCESSION NUMBER: EW012905
PUBLICATION DATE: 85
TITLE: SEVEN STRATEGIES THAT GUARANTEE TRAINING TRANSFER.
PERSONAL AUTHOR: KELLY, ANN I.; AND OTHERS
DESCRIPTOR: *INSTRUCTION; *POSTSECONDARY INSTRUCTION; *TRAINING; *TRANSFER OF TRAINING
DESCRIPTIVE NOTE: 78-82P.
ABSTRACT: PRESENTED ARE SEVEN STRATEGIES TO HELP TRAINING TRANSFER.
AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V39 N11

IRIS ACCESSION NUMBER: EW012906
PUBLICATION DATE: 85
TITLE: INCINERATION OF HAZARDOUS WASTES AT SEA.
PERSONAL AUTHOR: ZURER, PAMELA S.
DESCRIPTOR: *HAZARDOUS WASTES; *INCINERATION; ENVIRONMENT; *ENVIRONMENTAL IMPACT; *OCEAN INCINERATION; OCEANS; REGULATIONS; *RESEARCH NEEDS; *TECHNOLOGY; USEPA
DESCRIPTIVE NOTE: 24-26P.
ABSTRACT: THIS IS A REPORT ON INCINERATION OF HAZARDOUS WASTES AT SEA. TECHNOLOGY FOR OCEAN INCINERATION IS AVAILABLE, BUT COMMERCIAL OPERATORS, FACING OPPOSITION OF ENVIRONMENTAL ACTIVISTS, MUST WAIT LPA REGULATIONS.
AVAILABILITY: CHEMICAL AND ENGINEERING NEWS; V63 N49

IRIS ACCESSION NUMBER: EW012907
PUBLICATION DATE: 85
TITLE: A WATERTIGHT CASE: DECISION TIME FOR THE WORLD'S WETLANDS.
PERSONAL AUTHOR: MALTBY, EDWARD; DUCAN, PATRICK
DESCRIPTOR: CONSERVATION; *ECOSYSTEMS; ENVIRONMENT; IUCN; *MANAGEMENT; *NATURAL RESOURCES; *PLANNING; *TRENDS; *WETLANDS; WATER RESOURCES; *WORLD PROBLEMS
DESCRIPTIVE NOTE: 109-24P.
ABSTRACT: THIS IS A SPECIAL REPORT ON THE WORLD'S WETLANDS. NINE SHORT ARTICLES ARE INCLUDED.
AVAILABILITY: IUCN BULLETIN; V16 N10-12

BEST COPY AVAILABLE
THE HEALTH EFFECTS OF RADIATION: THE CONTROVERSY CONTINUES.

PERSONAL AUTHOR: TAYLOR, LYNDA

ABSTRACT: THIS ARTICLE EXPLORES THE CONTROVERSY ABOUT HOW MUCH RADIATION IS DANGEROUS.

AVAILABILITY: WORKBOOK; V10 N4

REHABILITATION OF AN ACTIVE WATER TREATMENT PLANT.

PERSONAL AUTHOR: ASHLEY, WILLIAM M.; SIGMAN, JOHN G.

ABSTRACT: REVIEWED ARE STEPS TAKEN TO RENOVATE AN AGING WATER TREATMENT PLANT.

AVAILABILITY: PUBLIC WORKS; V117 N1

CONTROL OF ACTINOMYCETIC FOAM AND SCUM PRODUCTION.

PERSONAL AUTHOR: GERARDI, MICHAEL H.

ABSTRACT: DESCRIBED IS A NEW METHOD FOR CONTROLLING ACTINOMYCETIC FOAM AND SCUM PRODUCTION AT ACTIVATED SLUDGE PLANTS.

AVAILABILITY: PUBLIC WORKS; V117 N1

DEVELOPING TRAINING STEP-BY-STEP.

PERSONAL AUTHOR: KELLO, JOHN E.

ABSTRACT: DESCRIBED ARE STRATEGIES FOR RETAINING SKILLS LEARNED IN TRAINING PROGRAMS.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V40 N1

SELF-MANAGED SKILL RETENTION.

PERSONAL AUTHOR: MARX, ROBERT D.

ABSTRACT: DESCRIBED ARE STRATEGIES FOR RETAINING SKILLS LEARNED IN TRAINING PROGRAMS.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V40 N1


ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE UTILIZATION OF ACTIVATED CARBON FOR THE TREATMENT OF SEWAGE AND INDUSTRIAL WASTES. TOPICS INCLUDE PERFORMANCE EVALUATIONS AT SPECIFIC SITES, ENGINEERING STUDIES, AND REGENERATION TECHNIQUES. APPLICATIONS IN SEWAGE TREATMENT, COAL CONVERSION, PETROCHEMICAL, AND VARIOUS OTHER INDUSTRIES ARE PRESENTED. CITATIONS PERTAINING TO AIR POLLUTION CONTROL ARE EXCLUDED. THIS UPDATED BIBLIOGRAPHY CONTAINS 269 CITATIONS, 25 OF WHICH ARE NEW ENTRIES (7) THE PREVIOUS EDITION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161
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**PROCESS CONTROLS**

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WATER TREATMENT

*WATER USE
*WATER WELLS
*WELLS
*WETLANDS
*WISCONSIN
*WORK ORDERS
*WORKSHOPS
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(4) EW012519 EW012804 EW012874 EW012875
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