This guide provides a review of the relevant literature on desalination within the collections of the Library of Congress. While not intended as a comprehensive bibliography, this guide is designed as a quick and ready reference source for the reader, and includes the following sections: (1) articles that provide introductions to the topic of desalination; (2) subject headings under which books on desalination can be located within the Library of Congress; (3) basic textbooks on desalination; (4) additional titles related to desalination; (5) special reports on desalination; (6) conference proceedings; (7) government publications; (8) bibliographies; (9) dissertations; (10) selected dissertations; (11) abstracting and indexing services that provide listings for relevant journal articles and other literature; (12) representative journal articles; (13) guides where reports and other types of literature are indexed; (14) selected technical reports sold by the National Technical Information Service; (15) selected materials available in the Science Reading Room pamphlet boxes; and (16) additional sources of information. (JJK)
DE Salination
Compiled by John F. Buydos

June 1991

SCOPE: Over the last few decades desalination technologies have been used increasingly throughout the world to produce drinking water from brackish groundwater and seawater, to improve the quality of existing supplies of fresh water for drinking and industrial purposes, and to treat industrial and municipal wastewater prior to discharge or reuse. Desalination technologies include distillation (multiple-effect evaporation, multi-stage flash distillation, vapor compression, and solar distillation), reverse osmosis, electrodialysis, ion exchange, and freeze desalination. The selection of the most appropriate desalination technology for a particular use depends on many site-specific factors. Many of these same technologies can also be used to remove contaminants other than salt from water supplies. This guide furnishes a review of relevant literature on desalination in the collections of the Library of Congress. Not intended as a comprehensive bibliography, this guide is designed—as the name of the series implies—to put the reader "on target."

INTRODUCTIONS TO THE TOPIC


See especially Chapter 8. Water resources management. Section G Desalination, p. 701-706.

*Available in reference collection, Science Reading Room
SUBJECT HEADINGS used by the Library of Congress, under which books on desalination can be located in most card, book, and online catalogs, include the following:

SALINE WATER CONVERSION (Highly relevant)
   See also subdivisions under saline water conversion, ADSORPTION, DISTILLATION PROCESS, FLASH DISTILLATION PROCESS, ELECTRODIALYSIS PROCESS, HYDRATE PROCESS, ION EXCHANGE PROCESS, PIEZODIALYSIS PROCESS, REVERSE OSMOSIS PROCESS
SALARINE WATER CONVERSION EQUIPMENT INDUSTRY (Highly relevant)
SALARINE WATER CONVERSION PLANTS (Highly relevant)
SOLAR SALINE WATER CONVERSION PLANTS (Relevant)
ELECTRODIALYSIS (Related)
MEMBRANES (TECHNOLOGY) (Related)
REVERSE OSMOSIS (Related)
SALINE WATERS (Related)
SEA-WATER, DISTILLATION OF (Related)
WATER-PURIFICATION—ION EXCHANGE PROCESS (Related)
WATER-PURIFICATION—REVERSE OSMOSIS PROCESS (Related)
DRINKING WATER—PURIFICATION (More general)

BASIC TEXTS


ADDITIONAL TITLES

Includes bibliographical references.

Dupont, R. Ryan, Talbert N. Eisenberg, and E. Joe Middlebrooks. Reverse osmosis in the treatment of drinking water. Logan, Utah, Utah Water Research Laboratory, Utah State University, 1982 103 p. (Water quality series, UWRL/Q-82/05)
Bibliography: p. 73-82.


Published also as a special issue of Desalination (TD479..D4), v. 59.
Includes bibliographies.

Includes bibliographies.

Include: bibliographies.

SPECIALIZED TITLES

Includes bibliographical references.
Contents: v. 1. Report on design of a 2.5 million gallon per day universal desalting plant.--v. 2. User's manual, part I: 2.5-mgd universal desalting plant.--v. 3. User's manual, part II: 2.5-mgd universal desalting plant.--v. 4. Bidding specification, 2.5-mgd universal desalting plant.--v. 5. Technical specification, 2.5-mgd universal desalting plant.

Desalination and water re-use technologies in Japan, annual report ... Tokyo, Japan, Water Re-Use Promotion Center, 1981- annual.

Bibliography: p. 589-592.

Includes bibliographical references.


CONFERENCE PROCEEDINGS


Includes bibliographical references.


Proceedings of the Twelfth International Symposium on Desalination and Water Re-Use, held in Malta, April 15-18, 1991, organized by the Institution of Chemical Engineers.

"EFCE event no. 440."

Includes bibliographical references and indexes.


[not yet cataloged]


Includes bibliographies.

GOVERNMENT PUBLICATIONS

Includes bibliographical references.


BIBLIOGRAPHIES


DISSEMINATIONS can be located by using the following indexes located in the Library's Main Reading Room:


Dissertation Abstracts International (1938- monthly) Z5053.D57

Dissertation Abstracts International (CD-ROM--same coverage as print volumes)

SELECTED DISSERTATIONS (available in Microform Reading Room)


ABSTRACTING AND INDEXING SERVICES which index relevant journal articles and other literature include:

**Applied Science & Technology Index** (1913-) Z7913.I7* and CD-ROM
   See: Saline Water Conversion

**Aquatic Sciences & Fisheries Abstracts** (1971-) QH90.A1A68* and CD-ROM
   See: Desalination
   Desalination Plants

**Current Technology Index** (1962-) Z7913.B7*
   See: Sea: Water: Desalination
   Water, Saline: Desalination

**Desalination Abstracts** (1966-84) TD478.D43
   See: Desalination, general; or name of desired process

**Energy Information Abstracts** (1976-) TJ163.2.E482*
   See: Desalination

**Energy Research Abstracts** (1976-) Z5853.P83U544b*
   See: Desalination
   Desalination Plants

**Engineering Index** (1884-) Z5851.E62* and CD-ROM
   See: Desalination

**Environment Abstracts** (1971-) GF1.E553*
   See: Desalination

**Environmental Periodicals Bibliography** (1972-) Z5863.E57E58*
   See: Desalination

**General Science Index** (1978-) Z7401.G46*
   See: Saline Water--Desalting

**Magazine Index** (1980-) Available in several formats in LC
   See: Saline Water Conversion
   Saline Water Conversion Plants

**Oceanic Abstracts** (1968-) GC1.O24*
   See: Desalination
   Desalination Plants

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Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room.


**REPORTS** and other types of literature are indexed in the following guides:

[Government Reports Announcements & Index (1946-)](Z7916.G78*)
- See: Desalination
- Desalination Plants

- See: Desalination

[Scientific and Technical Aerospace Reports](TL500.S35*)
- See: Desalination
SELECTED TECHNICAL REPORTS, sold by the National Technical Information Service, Springfield, Virginia 22161, include the following:


SELECTED MATERIALS available in the Science Reading Room pamphlet boxes include:


**Available in microform collection, Science Reading Room
ADDITIONAL SOURCES OF INFORMATION

International Desalination Association
P.O. Box 387
Topsfield, MA 01983
Telephone: (508) 356-2727
FAX: (508) 356-9964

National Water Information Clearinghouse
U.S. Geological Survey
423 National Center
12201 Sunrise Valley Drive
Reston, VA 22092
Telephone: (800) 426-9000

National Water Supply Improvement Association (NWSIA)
P.O. Box 102
St. Leonard, MD 20865
Telephone: (301) 855-1173
FAX (301) 586-2844
(National affiliate of the International Desalination Association)