



University of San Carlos
Josef Baumgartner Learning Resource Center



Pathfinder

Wastewater Engineering

www.library.usc.edu.ph

January 2014

Introduction

A pathfinder is a guide to the resources in a particular subject area in the library. It is an instruction/research tool designed to encourage researchers to do a self-directed use of the library.

The Science and Technology Library provide pathfinders basically to support students and faculty in their search for recorded literature and resources available at the USC Library System and accessible on the Net.

Should you have comments, questions and suggestions on this pathfinder, please contact Science and Technology Library at 2300100 local 269 or email to cllanticse@usc.edu.ph

Key Term : Wastewater Engineering

Scope : Wastewater engineering is a field of engineering focused on the management of water supplies for human and environmental health. It can include everything from sourcing clean supplies of drinking water to the management of wastewater in an environmentally friendly way. Specialists in this field typically have graduate degrees and can work on the design of treatment facilities, development of new equipment and techniques for processing, and a variety of other topics. Wastewater engineers also oversee activities at treatment plants on a day to day basis. Wastewater engineering involves the collection of waste through centralized sewer systems, delivery to treatment plants, and processing to remove contaminants. These contaminants can be handled in a variety of ways, while cleaned water can be discharged, used for landscaping, or employed in other ways. Creative uses for treated water are especially common in regions with limited water supplies, where reclaimed water can replace fresh sources of water and cut down on the demand for new water supplies.

Use For

- ❖ Effluent treatment
- ❖ Water purification
- ❖ Water treatment

Broader Term

- ❖ Sanitation
- ❖ Wastewater engineering
- ❖ Water-supply

Related Term

- ❖ Sewage disposal
- ❖ Sewerage
- ❖ Water reuse
- ❖ Water-supply engineering
- ❖ Water treatment plants

FOR BOOKS

BROWSE the library shelves for books with these numbers

628

628.1

628.13

628.2

628.3

628.4

628.14

628.16

628.35

628.39

628.162

628.1622

628.1662

628.168

628.1683

628.352

628.354

628.301576

628.301579

628.39

For more headings on your subject, check the **Library of Congress List of Subject Headings** using these subjects and search the **OPAC** for availability of library materials:

SEWERAGE

SEWAGE DISPOSAL

WATER REUSE

SEWERAGE PURIFICATION

SEWERAGE PURIFICATION ACTIVATED SLUDGE PROCESS

SEWERAGE PURIFICATION BIOLOGICAL TREATMENT

SEWERAGE PURIFICATION CHLORINATION

SEWERAGE PURIFICATION FILTRATION EQUIPMENT AND SUPPLIES
SEWERAGE PURIFICATION HANDBOOKS, MANUALS, ETC.
SEWERAGE PURIFICATION NUTRIENT REMOVAL
SEWERAGE PURIFICATION QUALITY CONTROL
WATER SUPPLY ENGINEERING
WATER QUALITY

Don't forget these books at the **GENERAL REFERENCE STACK AREA:**

- American Water Works Association. (2011). *Water quality & treatment : a handbook on drinking water*. 6th ed. New York : McGraw-Hill. 628.162/W29
- Brady, George S. (2002). *Materials handbook: an encyclopedia for managers, technical professionals, purchasing and production managers, technicians, and supervisors*. 15th ed. New York : McGraw-Hill. 620.1103/B79
- Green, Colin. (2003). *Handbook of water economics principles & practice*. Hoboken, N.J. : J. Wiley. 333.91/G82
- Kubal, Michael T. (2000). *Construction waterproofing handbook*. New York : McGraw-Hill. 693.892/K95
- Letterman, Raymond D. ed. (1999). *Water quality and treatment : a handbook of community water supplies*. 5th ed. New York : McGraw-Hill. 628.160973/W29.
- *McGraw-Hill encyclopedia of science and technology : an international reference work in twenty volumes including an index*. 9th ed. (2002). New York : McGraw-Hill. 503/M17
- Mays, Larry W. ed. (2001). *Stormwater collection systems design handbook*. New York : McGraw-Hill. 628.212/M45
- Mays, Larry W. ed. (2002). *Urban water supply handbook*. New York : McGraw-Hill. 363.61/M45
- Spellman, Frank R. (2003). *Handbook of water and wastewater treatment plant operations*. Boca Raton, Fla. : Lewis Publishers. 628.162/Sp32h
- Spellman, Frank R. (2003). *Water and wastewater treatment plant operations handbook*. Boca Raton, Fla. : Lewis Publishers. 628.162/Sp32w
- *Ullmann's encyclopedia of industrial chemistry*. (2011). 7th completely rev. ed. Weinheim : Wiley-VCH. 661.003/U14
- Woodard & Curran, Inc. (2006). *Industrial waste treatment handbook*. 2nd ed. Amsterdam : Elsevier/Butterworth-Heinemann. 628.4/W85
- Woodson, R. Dodge (Roger Dodge). (2003). *Water wells & septic systems handbook*. New York : McGraw-Hill. 628.742/W85

FOR SUBJECT REFERENCE:

- Davis, Mackenzie Leo. (2011). *Water and wastewater engineering : design principles and practice*. New York : McGraw-Hill. 628.1/D29
- Eckenfelder, W. Wesley (William Wesley). (2009). *Industrial water quality*. 4th ed. New York : McGraw-Hill. 628.3/Ec55
- Fryer, Julie. (2012). *The complete guide to water storage : how to use gray water and rainwater systems, rain barrels, tanks, and other water storage techniques for household and emergency use*. Ocala, Fla. : Atlantic Publishing Group. 628.13/F94

- Hammer, Mark J. (2012). *Water and wastewater technology*. 7th International ed. Boston : Pearson/Prentice Hall. 628.1/H18
- Metcalf & Eddy, Inc. (2003). *Wastewater engineering : treatment and reuse*. 4th ed. Boston : McGraw-Hill. 628.3/M56
- Parten, S. M. (Susan M.) (2010). *Planning and installing sustainable onsite wastewater systems*. New York : McGraw-Hill Professional. 628.3/P25

FOR PERIODICALS

Try the Online Databases to find articles on your subject:

- *ProQuest Central*(<http://search.proquest.com/login>)
- *ScienceDirect* (<http://www.sciencedirect.com/>)
- *Scopus* (<http://www.scopus.com/home.url>)
- *SpringerLink* (<http://link.springer.com/>)
- *EBSCOHOST*(<http://web.ebscohost.com/ehost/search/basic?sid=577e8f3d-9cac-4d6c-9753-9d45b2fe89bc%40sessionmgr114&vid=2&hid=108>)

FOR WEBSITES/ INTERNET

- Waste Water Treatment
<http://www.onderzoekinformatie.nl/en/oi/nod/classificatie/A64200/>
- Water Quality- Urban Waste Water Treatment Directive
<http://www.defra.gov.uk/Environment/water/quality/uwwtd/default.htm>
- Wastewater Engineering, Inc.
<http://www.wastewatereng.com/>
- Waste Water Management
<http://www.wwmi.net/index.htm>
- Waste Water Treatment Plant
<http://www.ci.springfield.oh.us/depts/service/wwtp/>
- Handling and Treatment- water-waste-environment-marketplace.com
<http://www.water-waste-environment-marketplace.com/category.asp?id=29Sludge>
- How Waste Water is Treated
http://www.ec.gc.ca/WATER/en/info/pubs/nttw/e_nttw5a.htm
- Databases on Waste/ Water Treatment
<http://www.serd.ait.ac.th/teenet/treatment.htm>
- Water Treatment and Air Purification
<http://www.lenntech.com/>

REMEMBER

IF IN DOUBT ask for HELP...

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