

MWH's Water Treatment: Principles and Design

By John C. Crittenden, R. Rhodes Trussell, David W. Hand, Kerry J. Howe, George Tchobanoglous

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the definitive guide to the theory and practice of water treatment engineering

THIS NEWLY REVISED EDITION of the classic reference provides complete, up-to-date coverage of both theory and practice of water treatment system design. The *Third Edition* brings the field up to date, addressing new regulatory requirements, ongoing environmental concerns, and the emergence of pharmacological agents and other new chemical constituents in water.

Written by some of the foremost experts in the field of public water supply, *Water Treatment, Third Edition* maintains the book's broad scope and reach, while reorganizing the material for even greater clarity and readability. Topics span from the fundamentals of water chemistry and microbiology to the latest methods for detecting constituents in water, leading-edge technologies for implementing water treatment processes, and the increasingly important topic of managing residuals from water treatment plants. Along with hundreds of illustrations, photographs, and extensive tables listing chemical properties and design data, this volume:

- Introduces a number of new topics such as advanced oxidation and enhanced coagulation
- Discusses treatment strategies for removing pharmaceuticals and personal care products
- Examines advanced treatment technologies such as membrane filtration, reverse osmosis, and ozone addition
- Details reverse osmosis applications for brackish groundwater, wastewater, and other water sources
- Provides new case studies demonstrating the synthesis of full-scale treatment trains

A must-have resource for engineers designing or operating water treatment

plants, *Water Treatment, Third Edition* is also useful for students of civil, environmental, and water resources engineering.

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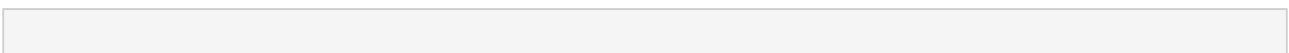
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Editorial Review

About the Author

MWH is a global consulting firm with more than 7,000 professionals and 180 offices in thirty-five countries, that provides services to a full range of water-related projects and programs ranging from water supply, treatment and storage, dams, water management for the natural resources industry, and coastal restoration to renewable power and environmental service. MWH employees wrote the first edition of this book.

JOHN C. CRITTENDEN is Director of the Brook Byers Institute for Sustainable Systems as well as Hightower Chair and Georgia Research Alliance Eminent Scholar in the School of Civil and Environmental Engineering at Georgia Institute of Technology.

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DAVID W. HAND is a Professor of Civil and Environmental Engineering at the Michigan Technological University. He has authored or coauthored over 130 technical publications including six textbooks, two patents, and eight copyrighted software programs.

KERRY J. HOWE is an Associate Professor of Civil Engineering at the University of New Mexico and former principal engineer at MWH. His teaching and research focuses on water quality, membrane processes, desalination, and advanced water treatment technologies.

GEORGE TCHOBANOGLIOUS is Professor Emeritus of Civil and Environmental Engineering at the University of California, Davis. He is the author or coauthor of more than 300 technical papers and a number of textbooks, including *Wastewater Engineering: Treatment and Reuse* and *Water Reuse*.

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