



# Water Quality & Treatment: A Handbook on Drinking Water (Water Resources and Environmental Engineering Series)

By American Water Works Association, James Edzwald

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## **The definitive water quality and treatment resource--fully revised and updated**

Comprehensive, current, and written by leading experts, *Water Quality & Treatment: A Handbook on Drinking Water*, Sixth Edition covers state-of-the-art technologies and methods for water treatment and quality control. Significant revisions and new material in this edition reflect the latest advances and critical topics in water supply and treatment. Presented by the American Water Works Association, this is the leading source of authoritative information on drinking water quality and treatment.

### **NEW CHAPTERS ON:**

- Chemical principles, source water composition, and watershed protection
- Natural treatment systems
- Water reuse for drinking water augmentation
- Ultraviolet light processes
- Formation and control of disinfection by-products

### **DETAILED COVERAGE OF:**

- Drinking water standards, regulations, goals, and health effects
- Hydraulic characteristics of water treatment reactors
- Gas-liquid processes and chemical oxidation
- Coagulation, flocculation, sedimentation, and flotation
- Granular media and membrane filtration
- Ion exchange and adsorption of inorganic contaminants
- Precipitation, coprecipitation, and precipitative softening
- Adsorption of organic compounds by activated carbon
- Chemical disinfection
- Internal corrosion and deposition control

- Microbiological quality control in distribution systems
- Water treatment plant residuals management

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## **Editorial Review**

About the Author

**American Water Works Association (AWWA)** is the leading organization of water management professionals in the United States.

**James K. Edzwald, Ph.D.**, is Professor Emeritus at the University of Massachusetts where he was Professor of Civil and Environmental Engineering from 1984-2006. He is a former President of the Association of Environmental Engineering Professors and served on the Board of Trustees as Vice President. Dr. Edzwald was twice honored with teaching awards at the University of Massachusetts and in 1990 he received the College of Engineering Alumni Association Outstanding Faculty Award. Dr. Edzwald is a member of AAEE, ASCE, AWWA, AEEESP, IWA, and the NEWWA.

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