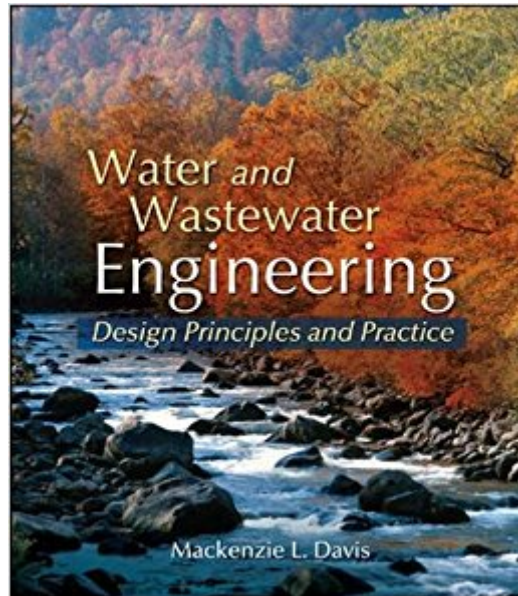




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Water And Wastewater Engineering



Synopsis

Water and Wastewater Engineering integrates theory and design. Fundamental environmental engineering principles are used as the foundation for rigorous design of conventional and advanced water and wastewater treatment processes. Reverse osmosis, membrane filtration, UV disinfection, biological nutrient removal and membrane bioreactors represent a small sample of the processes included. Water and Wastewater Engineering follows the flow of water through a water treatment plant and the flow of wastewater through a wastewater treatment plant. The design of unit water treatment processes includes coagulation/flocculation, softening, ion exchange, reverse osmosis, sedimentation, granular filtration, membrane filtration, disinfection, and residuals management. In a similar fashion, the design of unit wastewater processes follows the flow of wastewater through a plant. The design of unit wastewater treatment processes includes preliminary treatment, primary treatment, suspended growth secondary treatment including biological nutrient removal, and membrane biological reactors. Residuals management includes applicable methods to meet the 503 rules. The text includes appropriate regulatory constraints and highlights safety issues. Hints from the field bring to the student real-life experience in solving technical issues.

Book Information

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Customer Reviews

Mackenzie L. Davis is an Emeritus Professor of Environmental Engineering at Michigan State University. He received all his degrees from the University of Illinois. From 1968 to 1971 he served

as a Captain in the U.S. Army Medical Service Corps. During his military service he conducted air pollution surveys at Army ammunition plants. From 1971 to 1973 he was Branch Chief of the Environmental Engineering Branch at the U.S. Army Construction Engineering Research Laboratory. His responsibilities included supervision of research on air, noise, and water pollution control and solid waste management for Army facilities. In 1973 he joined the faculty at Michigan State University. He has taught and conducted research in the areas of air pollution control, hazardous waste management, and water and wastewater engineering. In 1987 and 1989-1992, under an intergovernmental personnel assignment with the Office of Solid Waste of the U.S. Environmental Protection Agency, Dr. Davis performed technology assessments of treatment methods used to demonstrate the regulatory requirements for the land disposal restrictions ("land ban") promulgated under the Hazardous and Solid Waste Amendments. Dr. Davis is a member of the following professional organizations: American Chemical Society, American Institute of Chemical Engineers, American Society for Engineering Education, American Meteorological Society, American Society of Civil Engineers, American Water Works Association, Air & Waste Management Association, Association of Environmental Engineering and Science Professors, and the Water Environment Federation. --This text refers to an out of print or unavailable edition of this title.

Delivered on time, it was taken good care so, no issues. The book itself is really good. There are lots of problems and the explanations thought the chapters are simple and straight forward with examples for every subject.

This is the book to get if your are mystified by sometimes hard to follow MWH and/or Metcalf books so common for undergrad/grad courses. Best out there for water and waste water engineering; if your Professor has chosen this book for class you are in good hands!For Professionals it is a great reference/reminder text. What it lacks in some "theory" it more than makes up for with practical application and input from fellow professionals.A MUST.

There are a lot of typos in this book. But walks through treatment processes and examples pretty nicely. Helpful for environmental engineering students. I think as a professional, Metcalf & Eddy should be the one you go for though.

Practical... when you can't find it anywhere you might find it here.

Great book, lots of valuable information, for all professionals and starters in the water treatment, explains important technics for different processes used in water treatment

This is an outstanding reference. :-)

Because the book is like new. I work in this area of engineering, and I think this book is very useful. I recommend it.

Great book, easy to follow. I would recommend this book if you are an environmental engineer working on water and waste water treatment.

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