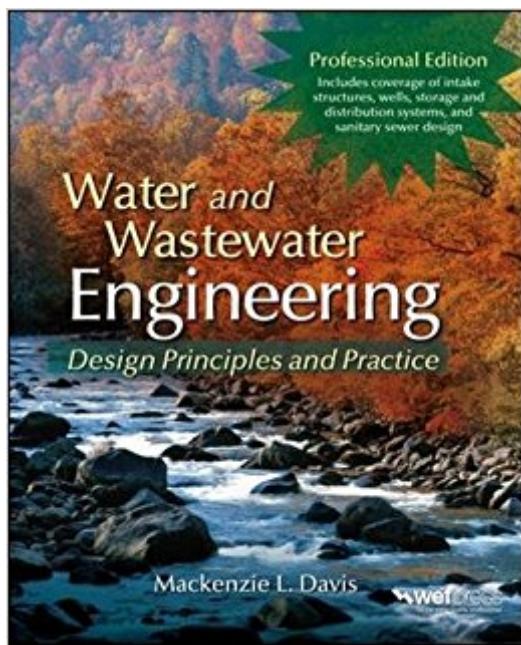


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# Water And Wastewater Engineering (Mechanical Engineering)



## Synopsis

An In-Depth Guide to Water and Wastewater Engineering This authoritative volume offers comprehensive coverage of the design and construction of municipal water and wastewater facilities. The book addresses water treatment in detail, following the flow of water through the unit processes and coagulation, flocculation, softening, sedimentation, filtration, disinfection, and residuals management. Each stage of wastewater treatment--preliminary, secondary, and tertiary--is examined along with residuals management. Water and Wastewater Engineering contains more than 100 example problems, 500 end-of-chapter problems, and 300 illustrations. Safety issues and operation and maintenance procedures are also discussed in this definitive resource. Coverage includes: Intake structures and wells Chemical handling and storage Coagulation and flocculation Lime-soda and ion exchange softening Reverse osmosis and nanofiltration Sedimentation Granular and membrane filtration Disinfection and fluoridation Removal of specific constituents Drinking water plant residuals management, process selection, and integration Storage and distribution systems Wastewater collection and treatment design considerations Sanitary sewer design Headworks and preliminary treatment Primary treatment Wastewater microbiology Secondary treatment by suspended and attached growth biological processes Secondary settling, disinfection, and postaeration Tertiary treatment Wastewater plant residuals management Clean water plant process selection and integration

## Book Information

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## Customer Reviews

Mackenzie L. Davis, Ph.D., P.E., DEE, is Emeritus Professor of Environmental Engineering in the Department of Civil and Environmental Engineering at Michigan State University where, for twenty years, he taught the senior-level design course, Water and Wastewater Treatment Plant Design. Dr. Davis is the author Introduction to Environmental Engineering, Fourth Edition (McGraw-Hill, 2006).

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 usefull. 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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