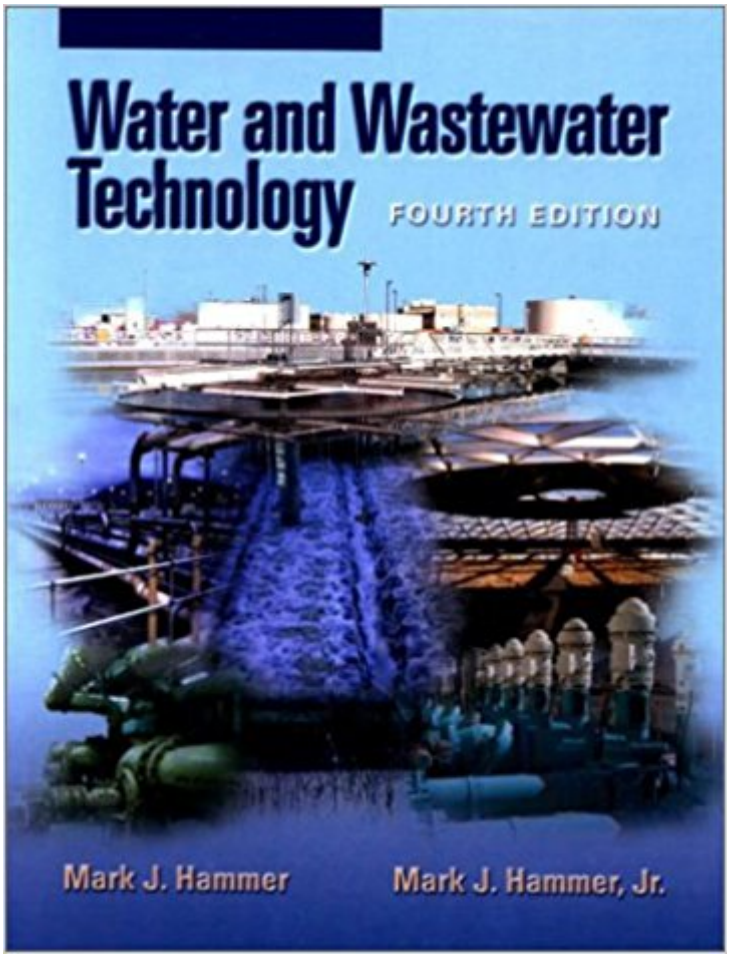
Water And Wastewater Technology (4th Edition)



Synopsis

For undergraduate civil technology or engineering courses as sanitary or environmental engineering/technology, water supply and sanitation, and water quality control. Also appropriate for two-year college courses in engineering technology and environmental studies.With a strong emphasis on practice, this progressive text provides updated, comprehensive coverage of the fundamental principles and current practices in water processing, water distribution, wastewater collection, wastewater treatment, and sludge processing.

Book Information

Hardcover: 536 pages

Publisher: Prentice Hall; 4th edition (August 24, 2000)

Language: English

ISBN-10: 0130258679

ISBN-13: 978-0130258670

Product Dimensions: 0.8 x 8 x 10 inches

Shipping Weight: 2.6 pounds

Average Customer Review: 3.4 out of 5 stars 2 customer reviews

Best Sellers Rank: #4,974,887 in Books (See Top 100 in Books) #71 inÂ Books > Science & Math > Environment > Recycling #1171 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Waste Management #1420 inÂ Books > Science & Math > Nature & Ecology > Water Supply & Land Use

Customer Reviews

Preface This book provides comprehensive coverage of the fundamental principles and current practices in water processing, water distribution, wastewater collection, wastewater treatment, and sludge processing. The objective is to transfer knowledge of these subjects to persons interested in continuing their study in sanitary technology and engineering, and to persons interested in operation and maintenance of water and wastewater facilities. This fourth edition updates the subject matter, illustrations, and problems to incorporate new concepts and issues related to the water environment. The most extensive revisions in this edition are the addition of new problems, hydraulics, disinfection of drinking water, wastewater processing, and editing of the previous text. Based on our experience in education, we believe students benefit from a review of the disciplines that have specific applications in water supply and wastewater management. Therefore, the introductory chapters cover fundamentals of chemistry, biology, hydraulics, and hydrology

applicable to sanitary studies. The subjects of water quality and pollution are also introductory to understand the reasons for the selection of processes in water and wastewater treatment. In presenting water supply and wastewater management, the approach is traditional, with water distribution, processing, and operation of systems separated from wastewater collection, treatment, and operation. We have carefully integrated the subject matter in each area so readers can clearly understand the interrelationships between individual unit operations and integration of systems as a whole. The final chapters on advanced wastewater treatment and water reuse are increasingly important in many regions for pollution control and beneficial use of water resources. Extensive use of illustrations increases the understanding of concepts and shows modern equipment and facilities. Also, numerous sample calculations assist the reader in the application of equations, charts, and tabulated data. Answers are given for some of the homework problems, mainly to help persons interested in individual study. A discussion of the book's contents is given in Chapter 1, Introduction. We would like to thank the reviewers of this edition for their helpful comments and suggestions: Roger Hlavek, Indiana University; Francis J. Hopcroft, Wentworth Institute of Technology; and Jerry A. Nathahson, Union County College. We hope this book will be of benefit to both present and future colleagues who teach, study, and practice in the area of the water environment.Mark J. Hammer Mark J. Hammer, Jr.

Among the key features of this new edition are: Readers will benefit from a review of the disciplines that have specific application in water supply and wastewater management. The introductory chapters cover relevant principles from chemistry, biology, hydraulics, and hydrology. Themost extensive revisions are in the topics of hydraulics, disinfection of drinking water, and wastewater processing; in editing the entire text for greater clarity; and the addition of new problems. Extensive use of illustrations increases the understanding of concepts and shows modern equipment and facilities. Numerous sample calculations assist in the applications of equations, charts, and tabulated data. Answers are provided for some of the problems to assist with home study. The authors have carefully integrated the subject matter so readers can clearly see the interrelationships between individual unit operations and integration of systems as a whole. This edition, as well as prior editions, provides updates to the subject matter, illustrations, and problems to incorporate recent concepts and issues related to the water environment.

This is an excellent book to read if you want to learn about wastewater treatment or just if you want to refresh your knowledge of this theme. The book presents easy to follow examples in many of the

topics, say, clarifiers design (primary, intermediate, final), Aeration basins, etc. I prefer this book rather than Viessman & Hammer because it is much more friendly. I have not check yet the part of the book corresponding to water treatment, but the wastewater part is very good.

This book was used at Portland Community College for an Environmental Engineering sequence (2 Quaters).Even though this book has introductory concepts of Chemistry, Biology, College Algebra and Fluid Mechanics I would highly recommend a term of "Freshman" 100 Level Chemistry, Biology and related topics in Physics.The authors intend that the instructor (coursework) will follow the chapters in numerical order. If you have an instructor that skips around a lot it makes this book very unfriendly. It also helps greatly if the instructor provides field trips and lab work directly related to the chapter topics.The authors covers the chapter topics very completely, however it is a very Dry Read. The example problems often leave out unit conversions. The publisher does not provide a student solutions manual, therefore making it very difficult to find errors made on chapter problems. Many of the images and pictures could be a lot better.The authors do not present the under laying theory well because they expect the reader to be moderately versed in the math and science aspects.The authors do a good job explaining the physical processes of water and wastewater treatment.I feel that I gained a lot of knowledge from this book and there are not any other choices that provide the overview of processes and theory all in one book.This is NOT a book you want to buy new. Buy It Used. If you are studying this topic for yourself buy an Older Edition.

Treatment and Remediation (v. 1) Theory and Practice of Water and Wastewater Treatment Water and Wastewater Engineering Water and Wastewater Engineering (Mechanical Engineering) Glossary: Water and Wastewater Control Engineering Handbook of Water and Wastewater Treatment Plant Operations Handbook of Water and Wastewater Treatment Technologies Ozonation of Drinking Water and of Wastewater