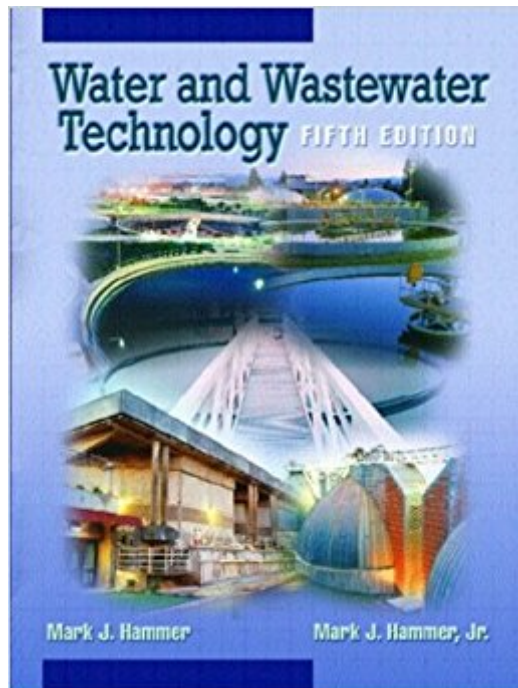




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# Water And Wastewater Technology (5th Edition)



## Synopsis

For sophomore/junior-level civil technology or civil engineering courses in 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. A proven text in the field of water and wastewater engineering and technology, this primer provides the fundamental principles and management practices in water processing, water distribution, wastewater collection, wastewater treatment, sludge processing, and water reuse. All major systems and operations are covered concisely yet comprehensively. Introductory chapters provide a review of pertinent aspects of chemistry, biology, hydraulics and hydrology, and water quality.

## Book Information

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## Customer Reviews

Comprehensive coverage of the fundamental principles and current management practices in water processing, water distribution, wastewater collection, wastewater treatment, and sludge processing is preserved in this text. Necessary background information is provided to readers interested in continued study of sanitary technology and in operation and maintenance of water and wastewater facilities. Mathematical analysis is minimized to accommodate a broad range of reader backgrounds. Key features: The text provides review of the disciplines that have specific application in water supply and wastewater management, including chemistry, biology, hydraulics, and hydrology. The most extensive revisions are in the topics of water quality, advanced wastewater, treatment, and water reuse. The text was edited for greater clarity and the addition of

new problems, except for Chapters 6-10. The subject matter has been integrated so readers can see the interrelationships between individual unit operations and integration of systems as a whole.

This book provides comprehensive coverage of the fundamental principles and current practices in water processing, water distribution, wastewater collection, wastewater treatment, sludge processing, advanced wastewater treatment, and water reuse. 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 fifth edition updates the subject matter, illustrations, and problems to incorporate new concepts and issues related to the water environment. In this edition, the revision of text and addition of new problems are in the introductory chapters on chemistry, biology, hydraulics and hydrology, and water quality and the final chapters on operation of wastewater systems, advanced wastewater treatment, and water reuse. Previous text and problems for Chapters 6-11 are unchanged. 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 subject of water quality is 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, covering 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 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.

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 checked 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 Quarters). 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 cover 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 underlying 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.

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