



Water and Wastewater Technology (4th Edition)

By Mark J. Hammer, Mark J., Jr. Hammer

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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.

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Editorial Review

From the Inside Flap

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.

From the Back Cover

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.
- The most 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.

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Preface

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Users Review

From reader reviews:

Daniele Chambers:

The book untitled Water and Wastewater Technology (4th Edition) contain a lot of information on that. The writer explains the woman idea with easy technique. The language is very straightforward all the people, so do not really worry, you can easy to read this. The book was authored by famous author. The author will bring you in the new period of time of literary works. It is possible to read this book because you can read on your smart phone, or gadget, so you can read the book inside anywhere and anytime. In a situation you wish to purchase the e-book, you can available their official web-site and also order it. Have a nice learn.

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