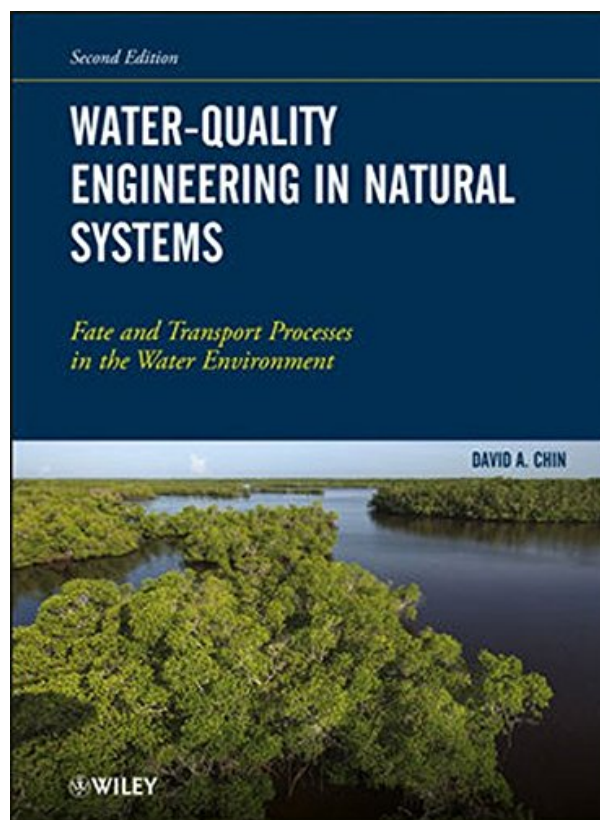


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Second Edition

WATER-QUALITY ENGINEERING IN NATURAL SYSTEMS

*Fate and Transport Processes
in the Water Environment*

DAVID A. CHIN



 WILEY

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Review

“This book is obviously a very valuable tool for the specialists in the field, for researchers, and students for enlarging their horizon on water-quality engineering in natural systems.” (Environmental Engineering and Management Journal, 1 April 2013)

“This well-organized, comprehensive book is intended to be used as the sole water quality textbook for upper-level undergraduate and graduate courses, but it would also make an excellent reference for environmental engineering professionals. Summing Up: Highly recommended. Upper-division undergraduates through professionals/practitioners.” (Choice, 1 August 2013)

From the Back Cover

FOCUSING ON CONTAMINANT FATE AND TRANSPORT, DESIGN OF ENVIRONMENTAL-CONTROL SYSTEMS, AND REGULATORY CONSTRAINTS

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watersheds are presented.

Some of the text's distinguishing features include its emphasis on the engineering design of systems that control the fate and transport of contaminants in the water environment, the design of remediation systems, and regulatory constraints. Particular attention is given to use-attainability analyses and the estimation of total maximum daily loads, both of which are essential components of water-quality control in natural systems. Readers are provided with a thorough explanation of the complex set of laws and regulations governing water-quality control in the United States.

Proven as an effective textbook in several offerings of the author's class "Water Quality Control in Natural Systems," the flow of the text is carefully structured to facilitate learning. Moreover, a number of practical pedagogical tools are offered:

- Practical examples used throughout the text illustrate the effects of controlling the quality, quantity, timing, and distribution of contaminant discharges into the environment
- End-of-chapter problems, and an accompanying solutions manual, help readers assess their grasp of each topic as they progress through the text
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About the Author

DAVID A. CHIN, PhD, is Professor of Civil and Environmental Engineering at the University of Miami as well as a registered Professional Engineer. Dr. Chin has published extensively, with important contributions on the fate and transport of contaminants in rivers, groundwater, oceans, and watersheds. His research interests also extend to wetland hydrology and vadose-zone hydrology. Dr. Chin is a recipient of the prestigious Collingwood Prize awarded by the American Society of Civil Engineers.

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WATER-QUALITY ENGINEERING IN NATURAL SYSTEMS: FATE AND TRANSPORT PROCESSES IN THE WATER ENVIRONMENT BY DAVID A. CHIN PDF

Provides the tools needed to control and remediate the quality of natural water systems

Now in its Second Edition, this acclaimed text sets forth core concepts and principles that govern the fate and transport of contaminants in water, giving environmental and civil engineers and students a full set of tools to design systems that effectively control and remediate the quality of natural waters. Readers will find coverage of all major classes of water bodies. Moreover, the author discusses the terrestrial fate and transport of contaminants in watersheds, underscoring the link between terrestrial loadings and water pollution.

Water-Quality Engineering in Natural Systems begins with an introduction exploring the sources of water pollution and the control of water pollution. It then presents the fundamentals of fate and transport, including the derivation and application of the advection–diffusion equation. Next, the text covers issues that are unique to:

- Rivers and streams
- Groundwater
- Watersheds
- Lakes and reservoirs
- Wetlands
- Oceans and estuaries

The final two chapters are dedicated to analyzing water-quality measurements and modeling water quality.

This Second Edition is thoroughly updated based on the latest findings, practices, and standards. In particular, readers will find new methods for calculating total maximum daily loads for river contaminants, with specific examples detailing the fate and transport of bacteria, a pressing problem throughout the world.

With end-of-chapter problems and plenty of worked examples, Water-Quality Engineering in Natural Systems enables readers to not only understand what happens to contaminants in water, but also design systems to protect people from toxic pollutants.

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- Published on: 2012-11-28
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- Dimensions: 11.30" h x 1.22" w x 9.00" l, 2.80 pounds
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1 of 1 people found the following review helpful.

The best book on fate and transport

By civilprofessor

This book is simply the best book on fate and transport in the water environment. I have used other available books (e.g., Thomann and Mueller, Fischer et al, Schnoor, etc.) but they are all outdated and less comprehensive and less useful than this one.

0 of 0 people found the following review helpful.

Great text and reference

By Christina A. Sorrels

I purchased this book for a reference for the PE Civil exam. It covers topics I couldn't find in other text books, mainly relating to processes and quality of natural waters. I thought about selling it back after I passed the exam, but decided to keep it because the information covered is great. It is heavy on fate and transport process equations.

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