



# Water-Quality Engineering in Natural Systems: Fate and Transport Processes in the Water Environment

*David A. Chin*

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**Water-Quality Engineering in Natural Systems: Fate and Transport Processes in the Water Environment** David A. Chin

**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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