



# Chemical Fate and Transport in the Environment

*By Harold F. Hemond, Elizabeth J. Fechner*

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**Chemical Fate and Transport in the Environment** By Harold F. Hemond, Elizabeth J. Fechner

This newly updated and expanded edition of **Chemical Fate and Transport in the Environment** covers the fundamental principles of mass transport, chemical partitioning, and chemical/biological transformations in surface waters, in soil and groundwater, and in air. Each of these three major environmental media are introduced by descriptive overviews, followed by presentation of the controlling physical, chemical, and biological processes. The text emphasizes intuitively based mathematical models for chemical transport and transformations in the environment, and serves both as a textbook for senior undergraduate and graduate courses in environmental science and engineering, and as a standard reference for environmental practitioners.

## Key Features

- \* Provides an integrated coverage of major environmental media
- \* Presents a quantitative treatment of fate and transport processes
- \* Is based on a graduate-level course taught for 10 years at MIT, augmented with practical consulting experience
- \* Features examples and illustrations throughout the text
- \* Includes extensive exercises at the end of each chapter
- \* Contains ample references to the primary literature

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**Bibliography**

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## **Editorial Review**

### **Review**

"...Covers almost all of the necessary topics for a straight environmental chemistry course. The strength of this book is the excellent quantitative approach that it presents to solving problems. Each section has worked example problems throughout the text, and concludes with 25 or more problems. An excellent solution manual is available."

- ENVIRONMENTAL SCIENCE AND TECHNOLOGY

"...a succinct, yet substantive, review of chemical fate and transport processes in the environment...I recommend this book as an excellent overview of chemicals in the environment for student training and general support for the practicing environmental scientist."

- Garth W. Redfield, for JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION

### **From the Back Cover**

This newly updated and expanded edition of Chemical Fate and Transport in the Environment covers the fundamental principles of mass transport, chemical partitioning, and chemical/biological transformation in surface waters, in soil and groundwater, and in air. In this textbook, each of these three major environmental media is introduced by descriptive overviews, followed by presentation of the controlling physical, chemical, and biological processes. Emphasis is placed on intuitively based mathematical models for chemical transport and transformations. Although developed for a one-semester graduate course, Chemical Fate and Transport in the Environment, Second Edition, is also an essential reference for environmental practitioners in industry, consulting, and government agencies.

### **KEY FEATURES**

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### **About the Author**

Harry Hemond is William E. Leonhard Professor of Civil and Environmental Engineering at the Massachusetts Institute of Technology. He has authored numerous scientific papers on biogeochemistry and related environmental topics. A registered professional engineer, Professor Hemond has also consulted with governmental agencies and industry. He is a winner of MIT's Irwin Sizer Award for his course "Chemicals in the Environment: Fate and Transport," and also holds a Graduate Student Council teaching award.

Elizabeth Fechner-Levy is an Associate at Abt Associates Inc., where she does environmental consulting,

predominantly for the U.S. Environmental Protection Agency.

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