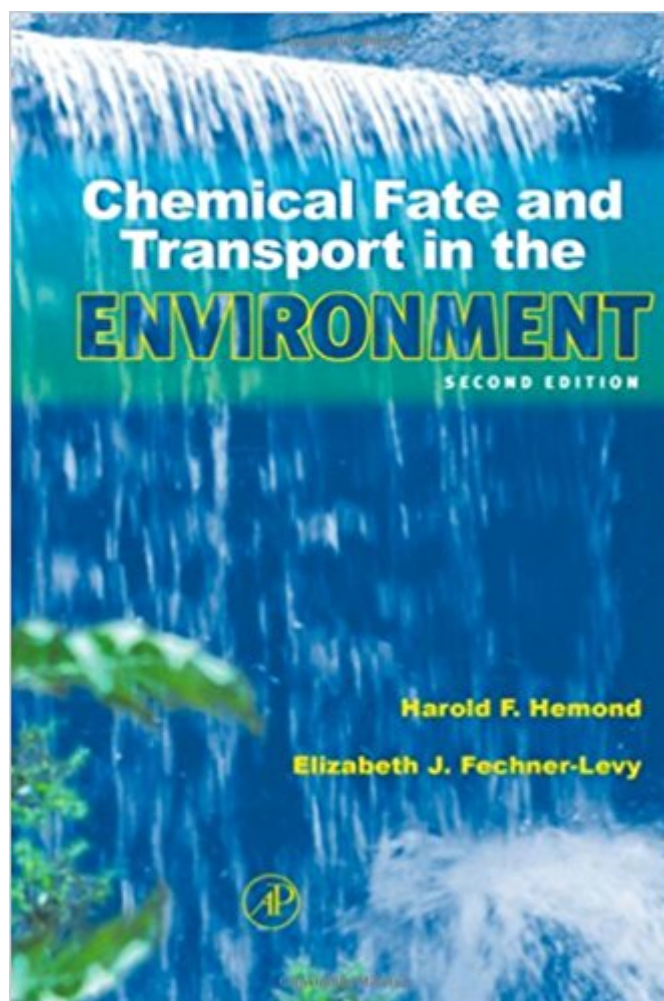


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# Chemical Fate And Transport In The Environment, Second Edition



## Synopsis

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

## Book Information

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## Customer Reviews

"...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

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**

- Provides an integrated treatment 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

This text is full of example calculations and practical applications. It is not a reference book. It is a book to read and learn from. I have bought 3 copies of this book after losing the first copy, and misplacing the second copy in a box somewhere. It's that good...If you want a good education in transport and fate this is a great book. If you already have that, and want a quick reference book full of partitioning coefficients, etc. you'll need a different book.

Used it for my chemical fate and transport class at UCR.

Great resource for someone, like myself, who wants to understand environmental chemistry - but has no background in the subject. It is designed for the college student who is studying another major other than Earth Science. However, it is not light on the science! There is a cohesive intent in the way the concepts are presented. They are unraveled in an intuitive way, as apposed to the direct mathematical models that would plug into the minutia of overall Earth and Atmospheric

Science. This book is basically a college course (or two) in and of itself. I'm using it to model a 10 acre lake in Pine Lake Georgia 30072. By working with the local EPD and their Field Monitoring Unit, we can measure deficiencies and suggest improvements to city planners. Understanding the transmission of gases and chemicals in and out of a body of water is key to function in the larger watershed and localized environmental health.

I got this book as a reference material for preparing for the Environmental PE exam. The book turns out to be more like a compilation of essays written by various authors on different subjects, probably based on their own research findings. The content does not have good coverage on the subject that its title implies, and certainly did not make it a helpful reference book.

If you are trying to learn environmental chemistry, I highly recommend you check this book out first! It is the best for explaining concepts, keeps things simple and clear so that you can understand them. Great book!

Required textbook, so I have no choice but buying it... The condition of the book is better than I expected, it has very little notes and highlites, but it has a funny smell which gives me headache.

Book arrived in Great condition. The description of the condition of the book was accurate.

While there is no doubt that the author is highly proficient in the subject matter the book was a difficult read. Terms and theories were explained clearly however this is not an introductory level chemistry book. This book is written for chemical or environmental engineering students. Illustrations and tables are also inserted at points where you are engrossed in some pretty heady material so it gave the impression of jumping around. I say this b/c illustrations and tables had a lot of information included. The formulas were high level mathematical computations that I found bewildering. I am not Einstein but I also have 10 years of in the trenches environmental chemistry and field management. There were excellent problems to work at the end of each chapter but the answers were not to be found in the book. I have no idea if I worked the problems correctly which defeats the point of working them in the first place. I would not recommend this book as a "beginner level" chemistry book. This is more appropriate for a graduate school level which may have been the intended audience. If you are looking for a book packed with theory and formulas then this is the book for you. I had expected a book that was a little more general in nature.

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