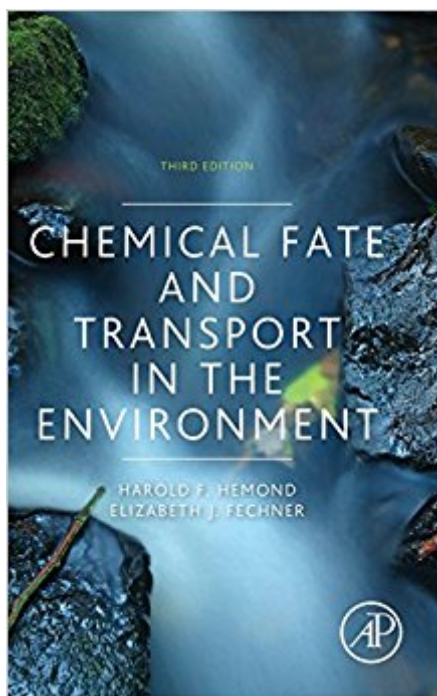


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# Chemical Fate And Transport In The Environment, Third Edition



## Synopsis

The third edition of *Chemical Fate and Transport in the Environment* •winner of a 2015 Textbook Excellence Award (Texty) from The Text and Academic Authors Association• explains 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 is introduced by descriptive overviews, followed by a 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. Winner of a 2015 Texty Award from the Text and Academic Authors Association. Includes many worked examples as well as extensive exercises at the end of each chapter. Illustrates the interconnections and similarities among environmental media through its coverage of surface waters, the subsurface, and the atmosphere. Written and organized concisely to "map" to a single-semester course. Discusses and builds upon fundamental concepts, ensuring that the material is accessible to readers who do not have an extensive background in environmental science.

## Book Information

Series: Chemical Fate and Transport in the Environment

Hardcover: 486 pages

Publisher: Academic Press; 3 edition (July 9, 2014)

Language: English

ISBN-10: 0123982561

ISBN-13: 978-0123982568

Product Dimensions: 6.1 x 1.4 x 9.2 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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From the Second Edition: "...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

The third 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 a 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 Includes many worked example problems as well as extensive exercises at the end of each chapter Illustrates the interconnections and similarities among environmental media through its coverage of surface waters, the subsurface, and the atmosphere Written and organized concisely to map to a single-semester course Discusses and builds upon fundamental concepts, ensuring that the material is accessible to readers who do not have an extensive background in environmental science

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