



Handbook of Chemical Mass Transport in the Environment

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A comprehensive account of the state of the science of environmental mass transport

Edited by Louis J. Thibodeaux and Donald Mackay, renowned experts in this field, the **Handbook of Chemical Mass Transport in the Environment** covers those processes which are critically important for assessing chemical fate, exposure, and risk. In a comprehensive and authoritative format, this unique handbook provides environmental chemists, geoscientists, engineers, and modelers with the essential capabilities to understand and quantify transport. In addition, it offers a one-stop resource on environmental mass transfer and mass transport coefficient estimation methods for all genres.

The book begins by discussing mass transport fundamentals from an environmental perspective. It introduces the concept of mobility ? key to environmental fate, since transport must occur prior to any reaction or partitioning within the natural multimedia compartments. The fugacity approach to environmental mass transfer and the conventional approach are examined. This is followed by a description of the individual mass transport processes and the appropriate flux equations required for a quantitative expression. The editors have identified 41 individual processes believed to be the most environmentally significant, which form the basis for the remainder of the book

Using a consistent format for easy reference, each chapter:

- Introduces the specific processes
- Provides a detailed qualitative description
- Presents key theoretical mathematical formulations
- Describes field or laboratory measurements of transport parameters
- Gives data tables and algorithms for numerical estimates
- Offers a guide for users familiar with the process who are seeking a direct pathway to obtain the numerical coefficients
- Presents computed example problems, case studies and/or exercises with worked-through solutions and answers

The final chapter presents the editors' insight into future needs and emerging priorities. Accessible and relevant to a broad range of science and engineering users, this volume captures the state of the transport science and practice in this critical area.

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