

A Basic Introduction to Pollutant Fate and Transport An Integrated Approach with Chemistry Modeling Risk Assessment and Environmental Legislation



BOOK DETAILS

- Author : Frank M. Dunnivant
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BOOK SYNOPSIS

A uniquely accessible text on environmental modeling designed for both students and industry personnel. Pollutant fate and modeling are becoming increasingly important in both regulatory and scientific areas. However, the complexity of the software and models often act as an inhibitor to the advancement of water quality science. A Basic Introduction to Pollutant Fate and Transport fills the need for a basic instructional tool for students and environmental professionals who lack the rigorous mathematical background necessary to derive the governing fate and transport equations. Taking a refreshingly simple approach to the subject that requires only a basic knowledge of algebra and first-year college chemistry, the book presents and integrates all of the aspects of fate and transport, including chemistry, modeling, risk assessment, and relevant environmental legislation; approaching each topic first conceptually before introducing the math necessary to model it. The first half of the book is dedicated to the chemistry and physics behind the fate and transport models, while the second half teaches and reinforces the logical concepts underlying fate and transport modeling. This better prepares students for support jobs in the environmental arena surrounding chemical industry and Superfund sites. Contributing to the book's ease of use are: An extremely user-friendly software program, Fate, which uses basic models to predict the fate and transport of pollutants in lakes, rivers, groundwater, and atmospheric systems. The use of "canned" models to evaluate the importance of model parameters and sensitivity analysis. A wealth of easy-to-understand examples and problems. A chapter on environmental legislation in the United States and Europe. A set of lab exercises, as well as a downloadable set of teaching aids. A much-needed basic text for contemporary hydrology or environmental chemistry courses and support courses for the environmental industry, this is a valuable desk reference for educators and industry professionals.

A BASIC INTRODUCTION TO POLLUTANT FATE AND TRANSPORT AN INTEGRATED APPROACH WITH CHEMISTRY MODELING RISK

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