

## CONTENTS

	Page
Preface	ix
<b>CHEMICAL RELEASE</b>	
1. Release of Chemicals into the Environment	3
<b>ENVIRONMENTAL MODELS</b>	
2. Fate of Chemicals in Aquatic Systems : Process Models and Computer Codes	25
3. Soil and Groundwater Fate Modeling	41
4. Modeling of Human Exposure to Airborne Toxic Materials	67
<b>MULTIMEDIA MODELS</b>	
5. The Role of Multimedia Fate Models in Chemical Risk Assessment	89
6. Partition Models for Equilibrium Distribution of Chemicals in Environmental Compartments	105
7. A New Mathematical Modeling System	125
<b>MODEL VALIDATION</b>	
8. Model Predictions vs. Field Observations : The Model Validation / Testing Process	151
<b>MODEL PARAMETERS</b>	
9. Application of Fugacity Models to the Estimation of chemical Distribution and Persistence in the Environment	175
10. Environmental Fate and Transport at the Terrestrial-Atmospheric Interface	197
11. Interactions Between Dissolved Humic and Fulvic Acids and Pollutants in Aquatic Environments	215
12. A Comparative Study of the Relationships between the Mobility of Alachlor, Butylate, and Metolachlor in Soil and Their Physico-Chemical Properties	231
13. Mathematical Modeling Application to Environmental Risk Assessments	249
14. Application of the Preliminary Pollutant limit Value (PPLV) Environmental Risk Assessment Approach to Selected Land uses	263
15. Human Exposure and Health risk Assessments Using Output of Environmental Fate Models	287
Index	309