6. Alternatives to CFCs and their Behaviour in the Atmosphere
7. Volatile Organic Compounds in Indoor Air
8. Volatile Organic Compounds: The Development of UK Policy

G.F. BENNETT

Ion Exchange Technology A.K. Sengupta, ed., Advances in Pollution Control (Series), Technomic Publishing Co., Lancaster, PA, 1995, $89.00, 385 pp. ISBN 1-56676-241-3

The editor's goal in compiling this book was "...to provide comprehensive coverage to those recent developments in ion exchange areas which would continue to have impacts... (on) pollution control and pollution prevention." The book contains nine chapters that can be placed in one of four broad categories: (1) trace contaminants, (2) removal as new materials, (3) desalination and gaseous pollutant control, and (4) gaseous pollutant control.

By title, the chapters are:

1. Removing Uranium and Radium From Groundwater by Ion Exchange Resins
2. Nitrate Removal From Contaminated Groundwater by Anion Exchange
3. Chromate Ion Exchange
4. Sorption and Desorption Behavior of Natural Organic Matter Onto Strong-Base Anion Exchangers
5. Complex Hexacyanoferrates for the Removal of Cesium From Solution
6. Immobilized Biomass: A New Class of Heavy-Metal Selective Ion Exchangers
7. Carix Process—A Novel Approach to Desalination by Ion Exchange
8. Sorption of Gaseous Pollutants on Ion Exchangers
9. Removal of Acid Gases From Combustion Flues by Adsorption on Ion Exchangers

The diverse chapters appear in several cases to be a blend ofthe author's research data and an extensive literature survey. Most were very informative although some could have been edited more closely to improve the English.

However, lest that negative reflection deter a potential reader, the coverage of Ion Exchange Technology is very good and as the publisher's series indicated, contributes positively to the literature and pollution control.

G.F. BENNETT

Integrated Pollution Control J.A.G. Drake, ed., The Royal Society of Chemistry, Cambridge, UK, 1994, £ 37.50, 102 pp. ISBN: 0-85404-705-0

This book contains the majority of the papers presented at a 1993 symposium entitled, "Environmental Update: Advances in Integrated Pollution Control." The 14 papers presented span a wide variety of topics from readioactivity to deep shaft industrial effluent treatment.

Titles of the papers are:

1. How IPC is Facilitating Environmental Protection
2. Statutory Water Quality Objectives
3. Setting Air Quality Standards
4. The Role of IPC in the Verification of the Eco-management & Adit Scheme and Certification to Environmental Management System Standards
5. Measurement of Gaseous Emissions from a Chemical Plant Boiler
6. Deep Shaft Industrial Effluent Treatment
7. Decontamination of Radioactivity
8. Case Study for Practical Experience in Obtaining an IPC Authorisation
9. IPC in the Waste Management Industry
10. Environmental Opportunities in Action: From War to Peace - a Case Study
11. IPC Applications in the Organic Chemical Sector
12. Photocatalytic Methods of Environmental Pollution Abatement
13. Contaminated Land: An Industry Response
14. Developing Recycling Routes and Markets for Chemical Wastes

G.F. BENNETT

Handbook of Emergency Response to Toxic Chemical Releases: A Guide to Compliance, by N.P. Cheremisinoff, Noyes Data Corp., Park Ridge, NJ, USA, 1995, $64.00, 315 pp., ISBN: 0-8155-1365-8

The preface of this book outlines its coverage in its first two paragraphs:

This handbook has been prepared as a working reference for the safety officer, the environmental engineer and the consultant. For the safety officer, this handbook provides detailed guidelines and instructions in preparing Right-to-Know reporting Audits, establishing programs and training employees on hazard awareness, and developing and implementing emergency response programs in the workplace and at off-site operations.

For the environmental engineer, this handbook provides extensive technical data on toxic chemical properties and detaited instructional aid on how to properly prepare toxic chemical release inventory reporting. The volume contains numerous examples on preparing SARA Title III chemical release reports and provides a compendium of State and Regional contacts within the Environmental Protection Agency."

This material (and more) is covered in five chapters entitled:

1. Emergency Response Basics and Hazards Awareness
2. Toxic Chemical Release Inventory Report
3. Corrective Action Technologies
4. Employer's Guide to Community Right-to-Know Reporting
5. Computer Systems for Chemical Emergency Planning

This book is a mixture of some new material (to this reviewer, at least), some very old material, some mundane and some very advanced.