

The unique feature of these guides in their use of the action/consequence/mitigation approach to chemical emergency response. Potentially, adverse consequences associated with each response technique are described along with ways to counteract each consequence.

Two other sections include: (1) a brief overview of the chemical emergency preplanning process, (2) sources of additional aid, (3) chemical regulation, (4) identification and classification, including cross references for U.N. identification numbers and the AAR's 49 STCC codes numbering series, and (5) a glossary of technical terms used in the guide.

No one in emergency response should be without the book. It is excellent.

GARY F. BENNETT

Contaminant Removal from Public Water Systems, by Daniel C. Houck et al., Noyes Publications, Park Ridge, NJ, 1985, 524 pages, \$52.

This book is really a combination of four reports created for the U.S. Environmental Protection Agency:

1. Turbidity removal for small public water systems
2. Microorganism removal for small water systems
3. Nitrate removal for small public water systems
4. Radionuclide removal for small public water systems

In this book, the authors (eight in all) of the various reports describe the rationale as well as methods for contaminant removal from small public water systems. Information is provided on: (1) why contaminant removal is important, (2) theories of control, (3) process options for control, (4) design procedures for control, (5) process control methods, (6) operation and maintenance procedures, and (7) cost estimation methods.

GARY F. BENNETT

Safe Storage of Laboratory Chemicals, by David A. Pepitone (Ed.), Wiley-Interscience, New York, NY, 1984, 282 pages, \$60.00.

There are very few books that I review that I feel compelled to read completely. This book is an exception, perhaps because it is in area of deep interest to me or perhaps it is because the book is very practical and well written. For whatever reason, I can say I read, with deep interest, most of the nine chapters.

On the jacket cover, the publishers have written:

"Safe Storage of Laboratory Chemicals is the first book to treat the subject of chemical storage from a comprehensive safety perspective aimed at the small volume users... This timely book offers a balanced approach to the safe storage of chemicals, including the necessary knowledge for identifying chemical storage hazards and solutions and alternative measures for sorting specific classes of chemicals."

The nine chapters of the book, at least two of which are by noted chemists who have authored their own safety books, are:

1. Storage requirements for flammable and hazardous chemicals
2. Incompatible chemicals in the storeroom: identification and segregation
3. Labeling unstable chemicals
4. Counteracting chemical spills in the storeroom
5. Use and selection of computers for chemical tracking systems
6. Surveys and inspection of academic chemical storage facilities
7. The University of Akron's chemical storage facilities
8. Implementation of an online IMS database system for warehouse and inventory management
9. A proven plan for eliminating dangerous chemicals from schools
10. Appendices:
 - (a) Saf-T-data labeling system
 - (b) Planning for purchasing for chemical storage
 - (c) Glossary of word processing and microcomputing terms
 - (d) Safety equipment for storage of flammable chemicals
 - (e) Flash points of common flammable liquids
 - (f) Chemical storage check list

As I said before, this is a very practical book that gives needed information to anyone handling and disposing chemicals. Tips on storage dispensing, response to spills and even government regulations governing disposal of spilled waste are considered. No laboratory manager should be without the book.

GARY F. BENNETT

Handbook of Toxic and Hazardous Chemicals and Carcinogens, 2nd edn., Noyes Publications, Park Ridge, NJ, 1985, 950 pages, \$96.

This handbook contains chemical, health and safety data for approximately 800 chemicals (200 more than in the first edition) including 178 carcinogens. Toxic chemical lists used in preparation of this book were: (1) USEPA priority toxic pollutants, (2) all substances whose workplace level is controlled by ACIGH, (3) all substances considered to date in the standard completion program of NIOSH, (4) USEPA's hazardous waste list, (5) USEPA's hazardous substance list, (6) USEPA's CHIPS documents, (7) NIOSH's Information Profile, (8) carcinogens identified in U.S. National Toxicology Program, (9) chemical profiles by the Dutch Association of Safety Experts, the Dutch Chemical Industry Association and the Dutch Safety Institute, (10) ILO Encyclopedia of Occupational Health and Safety, (11) United Nations IRPTC legal file and (12) Dangerous Properties of Industrial Materials Report.