

bers of the Systems Consulting Laboratory Inc., for the U.S. Air Force, Rocket Propulsion Laboratory and the U.S. Department of Transportation, Federal Railroad Administration.

The book is divided into five sections:

- General Guidelines (for training, planning, communication, decision-making, technical assistance, protective clothing and cleanup).
- Initial Response and Hazardous Chemical Data
- Hazard Assessment Guidelines
- Hazard Mitigation Guidelines
- Cargo Transfer, Wreckage Removal and Cleanup/Disposal Guidelines

Appendices provide information on physical and chemical properties, on-line information retrieval systems, information sources, location of U.S. Coast Guard and U.S. Environmental Protection Agency Offices and Hazardous Waste Disposal Sites.

There were several things about the book that left me unimpressed:

- The manuscript has been reduced in size and photo-reproduced, making it very hard to read.
- In about 100 pages of text, the authors try to give response information elsewhere contained in books four times that size.
- Does one need to republish USEPA and USCG office locational addresses?
- The locations of disposal sites are not complete; at least two in Ohio that I know of are not included.
- The references are woefully inadequate — for example, the authors cite the Proceedings of the 1972 Conference on Control of Hazardous Material Spills but no mention is made of the successive conferences held every two years since then. Moreover, numerous other very good hazardous spills books were left off the list.
- Approximately 50 pages were devoted to reproducing pages from the DOT response guide. Would it not have been better to cite the guide which is widely available and updated routinely?

Given the foregoing critique, its understandable why I cannot recommend the book. It is one I personally would not purchase.

GARY F. BENNETT

Evaluation of Remedial Action Unit Operations at Hazardous Waste Disposal Sites, by J. Ehrenfeld and J. Bass, Noyes Publications, Park Ridge, NJ, 1984, 433 pages, \$39.

This report was originally prepared for the U.S. Environmental Protection Agency by the authors who are members of A.D. Little, Inc. The authors have described more than 50 remedial action unit operations. Information given on each includes: description, status, factors for determining feasibility and reliability, principal data requirements and basic information for cost reviews.

In the introductory chapter, the authors give the readers background information: the laws according to the Comprehensive Environmental Response, Compensation, and Liability Act (Superfund) and the controls that grew out of the National Contingency Plan; the technical documents used by the authors; and, finally, a description of the cost review.

This short (12 pp.) initial chapter is followed by the four major chapters:

1. Principal Media and Associated Remedial Approaches

- (a) Groundwater/leachate
- (b) Surface water
- (c) Contaminated soil and waste material
- (d) Air

2. Control Technologies

- (a) Groundwater control
- (b) Surface water control
- (c) Soil and waste
- (d) Air control

3. Treatment Technology

- (a) Biological
- (b) Chemical
- (c) Physical
- (d) Direct

4. Monitoring Techniques

The book contains a wealth of both design and cost information on many different unit operations. It would be a worthwhile addition to most environmental libraries, but should be required reading for those engineers designing remedial cleanup systems.

GARY F. BENNETT

Hazardous and Toxic Materials: Safe Handling and Disposal, by H.H. Fawcett, John Wiley & Sons, New York, NY, 1984, 296 pages, \$35.80.

This is the second book by Fawcett I have reviewed in the past two years. The first was *Safety and Accident Prevention in Chemical Operations*, that he edited with W.S. Wood. The newer book is neither quite so lengthy — nor will it be of quite as much use to those of us deeply involved in chemical safety and accident prevention. However, it does present a useful, balanced discussion of the problems of hazardous chemicals.

The dust jacket nicely describes the focus of the book this way:

“The book offers a balanced, unbiased view of the latest scientific information about hazardous and toxic materials, their containment, and their reliability to man, animals and plants.”