

- (7) Solvent waste minimization by the coating industry
- (8) What to do with hazardous waste; regulations, management and disposal
- (9) Waste reduction for chlorinated solvents users
- (10) On-site reuse and recycle of solvents
- (11) Commercial (off-site) solvent reclamation
- (12) Making the most of bottoms and residues
- (13) Treatment: solvent waste stream
- (14) Treatment of spent solvent wastewaters: Focus on changing economics

Appendix A: Separation techniques for solvent recovery

Appendix B: Treatment and pretreatment

Appendix C: Good operating practice

This book is very well written with each chapter authored by a different government or industry expert. Unfortunately, their manuscripts have been photoreproduced (reduced) and the small print size makes the book a little difficult to read.

GARY F. BENNETT

*Worker Protection During Hazardous Waste Remediation*, by L.P. Andrews (Ed.), Center for Labor Education and Research, published by Van Nostrand Reinhold, New York, NY, 1990, ISBN 0-442-23899-1, 391 pp., \$ 44.95.

Eight different authors working out of the Center for Labor Education and Research of the University of Alabama, Birmingham, Alabama, authored this book from their bases as members of a group that has been training workers all across the United States in occupational safety and health since 1970. The material in the book clearly spells out the best ways to recognize industrial hazard, handle wastes, prevent accidents and treat exposed victims in industrial settings.

In the introduction of the book, the authors outline the problem and their approach in this way:

“Hazardous waste sites are dangerous not only for the obvious reasons (such as potential exposure to toxic wastes) but also for some less obvious reasons. For example, these sites are unpredictable – nobody knows for sure what is buried in an abandoned site until the site assessment is complete and surprises still can occur. Also, site characteristics change as materials are removed; specifically, trenches are excavated, causing a confined space hazard; bulking of compatible containerized wastes creates waste hazards. The book addresses the specific problems and provides solutions with practical procedures and application for the special work practices needed to provide a safe work environment and to maintain compliance with SARA and the applicable OSHA standards.”

The titles of the book's 14 chapters clearly reveal its coverage:

- (1) Rights and responsibilities to workers
- (2) Medical surveillance
- (3) Hazard recognition
- (4) Toxicology
- (5) Emergency controls
- (6) Safe work practices
- (7) Safe use of field equipment
- (8) Personal protective equipment
- (9) Safe sampling technologies
- (10) Groundwater principles and monitoring considerations
- (11) Emergency procedures
- (12) Transporting hazardous wastes
- (13) Decontamination
- (14) Site safety plan

Like most multi-authored books, the chapters of this book are of variable quality but due to good editing, they are of consistent format. I very much like the specification of objectives at the beginning of each chapter, i.e. what you should learn by reading the chapter given.

Perhaps it's my narrow personal interest, but I found the chapter on 'Hazard Recognition' well written and as comprehensive as warranted in a book of this type (spanning over 50 pages). That was not my assessment of the short (20 pages) Toxicology chapter. Toxicology is a topic we engineers need much more exposure to and much more than can be covered adequately in 20 pages of explanation and examples. In that chapter, I was distressed by the incompleteness of the references as well as their limited number (five).

GARY F. BENNETT

*Principles of Air Pollution Meteorology*, by Tom Lyons and Bill Scott, CRC Press Inc., Boca Raton, FL, 1990, ISBN 0-8492-7106-6, 224 pp., \$ 39.95 (Northern America) and \$ 47.00 (outside).

With the passage of the Clean Air Act amendments in the United States, activities related to air pollution meteorology will continue to increase. The book by Lyons and Scott is a useful addition to the existing literature [1-4] on this subject.

The book is divided into five chapters:

- (1) Introduction
- (2) Atmospheric boundary layer
- (3) Atmosphere diffusion
- (4) Pollutants and their properties and
- (5) Environmental monitoring and impact.