

- Section 3, covers physical plant design and considers how inappropriate design practices for the physical facility and its hazards contribute to accidental chemical releases.
- Section 4, discusses procedures and practices such as management policies, operator training, maintenance practice and other topics.
- Section 5, discusses protective systems including scrubbers, flares and secondary containment systems.

Costs are given for installation and operation of the various mitigation systems.

The third and final manual incorporated in this one book addresses post-release mitigation measures that may reduce the consequences of an accidental toxic chemical release after it has occurred. This section's scope is outlined by the title of the chapters:

- Emergency planning and training
- Facility siting and layout
- Detection and warning system
- Vapor dispersion
- Meteorological instrumentation
- Secondary containment
- Spray, dilution and dispersion systems
- Foam systems

GARY F. BENNETT

*International Technologies for Hazardous Waste Site Clean-up*, by T. Nunno, J. Hyman, P. Spawn, J. Healy, C. Spears and M. Brown, Noyes Data Corp., Park Ridge, NJ, 1990, ISBN 0-3155-1238-4, 283 pp., \$ 45.

The cost of cleaning up problem hazardous waste sites in the United States is staggering. No one can predict within an order of magnitude the final cost to the country, but it is in the order of billions of dollars. So any help the nation can get by way of better or more economic clean-up methods will be extremely beneficial.

Consequently the purpose of this project, which is the subject of the US Environmental Protection Agency report on which the book is based is to identify and assess international technologies that could be utilized for hazardous waste sites remediation in the United States. Emphasis was placed on technologies that have been developed and/or applied in Europe, Japan and Canada. As a result of literature survey and personal contact, 95 technologies have been identified that may be applicable the Superfund site remediation.

For each of the 95 technologies, 63 were found to merit further review of their progress; 15 of these technologies came from NATO/CCMS (Committee

on Challenges of Modern Society) studies in progress of the 95; 13 technologies were recommended for further study in Phase II of this program.

For each of the 95 technologies the authors provide a 'Fact Sheet' with as much data as they had given under the following headings:

- Process title
- Type of treatment
- Institutional contact
- Function
- Process description
- Performance
- Limitations
- Economics
- Status
- Recommendation of this report for further study
- References

Obviously, not all sections noted above are filled in, economic data not being available for many technologies.

GARY F. BENNETT

*Pesticide Fact Handbook*, by US Environmental Protection Agency, published by Noyes Data Corp., Park Ridge, NJ, 1990, ISBN 0-8155-1239-2, 666 pp., \$ 78.

Volume 2 of the *Pesticide Fact Handbook* contains 87 pesticide fact sheets published by the US Environmental Protection Agency in the 2 year period from January 1988 to December 1989. This new release follows Volume 1 published in 1988 which contained 130 fact sheets.

Each pesticide fact sheet includes a description of the chemical use patterns and formulations, scientific findings (e.g. toxicological characteristics, ecological fate and effect), a summary of the agency's regulatory position/rationale and a summary of major data gaps.

GARY F. BENNETT

*OSHA Regulated Hazardous Substances: Health, Toxicity, Economic and Technological Data*, by US Occupational Health and Safety Administration, published by Noyes Data Corp., Park Ridge, NJ, 1990, ISBN 0-8155-1240-6, 2 vols., 2294 pp., \$ 135.

The data presented in the large two-volume set include health, toxicity, eco-