

The U.S. Environmental Protection Agency (EPA) has published a wealth of information on an infinite variety of pollution topics. Nowhere is the publishing activity more evident than in the hazardous chemical-contaminated site remediation.

But for the ordinary engineer, even the researcher, EPA material (reports, etc.) is difficult to find. Even though my University library has an extensive government document section, I find it difficult, on occasion, to find the document I want. Thus, the book serves a major purpose in publishing synopses of 28 EPA reports prepared by EPA personnel and EPA consultants.

This book is divided into two equal sections:

- Part I: Containment, pump-and-treat, and in situ treatment;
- Part II: Ex situ treatment methods for contaminated soils, ground water and hazardous waste.

While I was tempted to reproduce the table of contents listing the titles of all 28 chapters, I resisted. Suffice it to say that the editor selected a wide variety of reports covering, among others, the following topics: (1) ex situ processes included air stripping, soil washing, solvent extraction, chemical oxidation, chemical dehalogenation, slurry biodegradation, rotating biological contractors, solidification/stabilization, thermal desorption, pyrolysis, and supercritical water oxidation; and (2) a host of in situ processes among which are vitrification, bioremediation, and soil vapor extraction

All reports, as one might expect from an EPA project, are very well-referenced.

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Industrial water reuse and wastewater minimization, James G. Mann and Y.A. Liu, McGraw-Hill, New York, NY, 1999, 524 p. plus CD-ROM disk, US\$99.95, ISBN: 0-07-134855-7.

Anyone opening this book expecting a conventional approach to wastewater use and reuse will be very surprised as the text is a very modern, mathematical approach to a very old problem. Water-pinch technology is a radically modern computational analysis. This new approach allows engineers "... to analyze water-using processes before design and operation, as well as after, to minimize both freshwater consumption and wastewater generation."

The book's authors review the application of the new water-pinch technology and its use. By combining an analysis of the theoretical principles underlying the technology, including a detailed discussion of the theoretical principles which they combine with a step-by-step analysis of methodologies for the practical applications of these principles,