

9. How do I know if the system is operating effectively and efficiently?
10. When can I stop operating the system?
11. The system is not operating/performing as intended. What's wrong?
12. What should I include in a Statement of Work for my contractor?

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Gary F. Bennett

### **Handbook of Chemical and Environmental Engineering Calculations**

Joseph P. Reynolds, John S. Jeris and Louis Theodore (Eds.), Wiley, New York, NY, 2002, 961 pp., US\$150.00, ISBN 0-47140228-1

The *Handbook of Chemical and Environmental Engineering Calculations* is a very different book from ones I normally review. Rather than being a standard textbook, it contains problems only, more than 600 in total, which are divided into eight chapters (which, in turn, are subdivided into 55 sections) as follows.

1. Chemical Engineering Fundamentals
2. Chemical Engineering Principles
3. Air Pollution Control Equipment
4. Solid Waste
5. Water Quality and Wastewater Treatment
6. Pollution Prevention
7. Health, Safety, and Accident Management
8. Other Topics

The goal of the authors was to produce a non-traditional book, one dealing with calculations only. The book is designed to be used as a self-teaching aid. One of the key features of this text is the presentation of problem statements and solutions in a stand-alone manner. Each presented problem contains a title, problem statement, data, and solution with the progression of problem difficulty increasing in the section.

The final section (entitled "Other Topics") contains much interesting material. Of special interest to me were the separate sections on "Ethics" and "ISO 14000".

The book is without references to the literature, but this omission is not a detriment to its utility. I commend the book to faculty use. As far as students are concerned, I am certain they will find the book useful as a supplement to their regular text.

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### **Remediation and Beneficial Reuse of Contaminated Sediments**

Robert E. Hinchee, Augusto Porta, Marco Pellei (Eds.), Battelle Press, Columbus, OH, 2002, 473 pp., US\$ 75.00, ISBN 1-57477-129-9

This book is the third and final volume of papers from the First International Conference of Contaminated Sediments held in Venice, Italy, in October 2001.