

though the operations are sometimes simpler in application. Finally, Part VI looks briefly at the use of biochemical operations to remove xenobiotic organic chemicals from wastewaters. The intention is to introduce this topic so the reader can continue learning with the rest of us as we seek to solve the world's environmental problems".

Each chapter ends with a summary of the key points in the chapter followed by numerous study questions (a section that includes problems). My only criticism of the book is that there are fewer numerical problems that I would like in a text.

GARY F. BENNETT

PII: S0304-3894(99)00053-9

Adsorption Design for Wastewater Treatment, David O. Cooney, Lewis Publishers, Boca Raton, FL. 1998, \$44.95, 190 pp., ISBN: 1-56670-333-6

Few books deal with a single water/wastewater treatment process. This one is an exception, in that the author discusses solely the use of activated carbon to adsorb contaminants from aqueous streams. Cooney wrote this book for "...students and practicing engineers who wish to learn how to design batch adsorption units and fixed-bed adsorbers without having to delve into long, detailed, and largely theoretical treatises on adsorption."

I was intrigued by the author's discussion in the preface of the other texts available on the topic and comparing their coverage to his own. The section is the best review of the textbook literature on this topic I have seen.

As a text, the author notes he was able to cover it completely in a 4-week period in a graduate level engineering course—and from my reading of the book, I would agree this timeframe is 'doable' but busy. As a text, faculty members will appreciate the numerous problems found at the end of each chapter.

The material presented is comprehensive (mathematical), treated theoretically, and approached practically (for design purposes).

The book centers on the following eight chapters:

- Adsorption for Wastewater Treatment
- Production and Properties of Activated Carbons
- The Nature of Adsorption
- Adsorption Equilibria
- Kinetics of Adsorption with Granular Adsorbents
- Design of Powdered Carbon Batch Contractors
- Theoretical Solutions for Fixed-Bed Adsorbers
- Design of Granular Carbon Fixed-Bed Adsorbers

My only criticism is that example problems are printed in paragraph form rather than line-by-line, making it difficult to follow the mathematical processes.

GARY F. BENNETT

PII: S0304-3894(99)00054-0

Basics of Industrial Hygiene, Debra K. Nims, John Wiley and Sons, Inc., New York, NY, 1999, \$49.95, 355 pp. (8 1/2 in × 11 in format), ISBN: 0-471-29983-9

This is the second book I have reviewed recently from the Wiley series entitled "Preserving the Legacy." This book is actually the fifth in the series developed by INTELECOM Intelligent Communication is Association with the Partnership Environmental Technology Education. I was impressed with the prior book ("Basis of Industrial Toxicology") as I am with this one, the latest volume in the series. Not surprisingly, both have similarities in format that I found to my liking: well written, excellent (and copious) tables and illustrations, and questions at the end of each chapter to test the reader's (student's) understanding.

This book was designed for environmental technology students and its format follows the series pattern (noted above), 'featuring learning objectives, summaries, chapter-end reviews, practice questions and skill-building classroom activities.'

Although, I have been 'exposed' to industrial hygiene and industrial hygienists (actually having served on a committee that created a medical college industrial hygiene program), I am not an expert in the field. But I feel I know a lot more after reviewing the book. It is well-written and in it, the author presented adequate information for its designated task of educating industrial hygiene technicians.

The book has the following chapters:

- Introduction to Industrial Hygiene
- Toxicology Review
- Occupational Health Standards
- Airborne Hazards
- Sampling for Airborne Contaminants
- Indoor Air quality
- Controlling Airborne Hazards
- Occupational Skin Disorders
- Occupational Noise Exposure
- Ionizing and Nonionizing Radiation Ergonomics and Temperature Extremes
- Selection and Use of Personal Protective Equipment

The book also has seven short appendices, a glossary, and a bibliography. I must compliment the author on her method of citing OSHA Standards. Rather than reproducing the entire regulation, she gives the title of the sections.

GARY F. BENNETT

PII: S0304-3894(99)00055-2

Odor and VOC Control Handbook, Harold J. Rafson, ed., McGraw-Hill, New York, NY, 1998, \$99.95, 637 pp., ISBN: 0-07-052523-4

Air pollution control (in the USA, at least) goes through phases in which control of one type of pollutant is emphasized. Currently, the focus is on organics, especially toxic organics. Thus the appearance of this book is timely, and it is comprehensive.