

Handbook of Chemical and Environmental Engineering Calculations

By Joseph P. Reynolds, Louis Theodore, John S. Jeris

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Because of the ubiquitous nature of environmental problems, a variety of scientific disciplines are involved in the development of environmental solutions. The *Handbook of Chemical and Environmental Engineering Calculations* provides approximately 600 real-world, practical solutions to environmental problems that involve chemical engineering, enabling engineers and applied scientists to meet the professional challenges they face day-to-day.

The scientific and mathematical crossover between chemical and environmental engineering is the key to solving a host of environmental problems. Many problems included in the *Handbook* are intended to demonstrate this crossover, as well as the integration of engineering with current regulations and environmental media such as air, soil, and water. Solutions to the problems are presented in a programmed instructional format. Each problem contains a title, problem statement, data, and solution, with the more difficult problems located near the end of each problem set. The Handbook offers material not only to individuals with limited technical background but also to those with extensive industrial experience.

Chapter titles include:

- Chemical Engineering Fundamentals
- Chemical Engineering Principles
- Air Pollution Control Equipment
- Solid Waste
- Water Quality and Wastewater Treatment
- Pollution Prevention
- Health, Safety, and Accident Management

Ideal for students at the graduate and undergraduate levels, the *Handbook of Chemical and Environmental Engineering Calculations* is also a comprehensive reference for all plant and environmental engineers, particularly those who work with air, drinking water, wastewater, hazardous materials, and solid waste.

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