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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.

Handbook of Chemical and Environmental Engineering ...

The scientific and mathematical crossover between chemical and environmental engineering is the key to solving a host of environmental problems. Many problems included in this book 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.

Take Advantage of the Latest Calculation Methods for Solving Problems in Every Major Area of Environmental Engineering The only hands-on reference of its kind, the Handbook of Environmental Engineering Calculations equips you with step-by-step calculation procedures covering virtually every aspect of environmental engineering. Designed to give you quick access to essential information, the updated Second Edition of this unique guide now presents the latest methods for solving a wide range of specific problems, together with worked-out examples that include numerical results for the calculations. Written by a team of environmental experts from both the private and public sectors, this easy-to-use reference provides you with complete calculations for water quality assessment and control...solid waste materials ... and air pollution control. Filled with 200 helpful illustrations, the Second Edition features: Hundreds of detailed examples and calculations with fully illustrated steps Calculations covering every aspect of environmental engineering Both SI and U.S. customary units presented throughout New to this edition: new sections on fuel cells and air toxic risk assessment Inside This State-of-the-Art Environmental Engineering Toolkit • Calculations of Water Quality Assessment and Control • Solid Waste Calculations • Air Pollution Control Calculations • Air Toxic Risk Assessment • Fuel Cell Technologies

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.

In his latest book, the Handbook of Environmental Engineering, esteemed author Frank Spellman provides a practical view of pollution and its impact on the natural environment. Driven by the hope of a sustainable future, he stresses the importance of environmental law and resource sustainability, and offers a wealth of information based on real-world

A compilation of the calculation procedures needed every day on the job by chemical engineers. Tables of Contents: Physical and Chemical Properties; Stoichiometry; Phase Equilibrium; Chemical-Reaction Equilibrium; Reaction Kinetics and Reactor Design; Flow of Fluids and Solids; Heat Transfer; Distillation; Extraction and Leaching; Crystallization; Filtration; Liquid Agitation; Size Reduction; Drying; Evaporation; Environmental Engineering in the Plant. Illustrations. Index.

In this book Chyu presents a mathematically rigorous treatment, written at a simple technical level, so structural engineers who are concerned directly with structural analysis of elastic beam problems will quickly learn the essentials and be equipped to apply elastic beam calculations in their work.

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