

Handbook Of Chemical Engineering Calculations

Fourth Edition

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provides detailed procedures for performing hundreds of chemical engineering calculations along with fully worked out examples

this compact and highly readable text now in its second edition continues to provide a thorough introduction to the basic chemical engineering principles and calculations to enable the students to evaluate the material and energy balances in various units of a process plant unless a chemical engineer is conversant with the energy conservation techniques at every stage of the process economy cannot be achieved in the design of process equipment the text lucidly explains the techniques involved in analyzing different chemical processes and the underlying theories by making a generous use of appropriate worked examples the examples are simple and concrete to make the book useful for self instruction in this new edition besides worked examples several exercises are included to aid students in testing their knowledge of the material contained in each chapter the book is primarily intended for undergraduate students of chemical engineering it would also be useful to undergraduate students of petroleum technology pharmaceutical technology and other allied branches of chemical engineering key features exposes the reader to background information on different systems of units dimensions and behaviour of gases

liquids and solids provides several examples with detailed solutions to explain the concepts discussed includes chapter end exercises with answers to enhance learning

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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