

Chapter 1 : Perry's Chemical Engineers' Handbook, Eighth Edition

Solve chemical engineering problems quickly and accurately. Fully revised throughout with new procedures, Handbook of Chemical Engineering Calculations, Fourth Edition shows how to solve the main process-related problems that often arise in chemical engineering practice.

Includes bibliographical references and index. Physical and Chemical properties Chapter 2: Phase Equilibrium Chapter 4: Chemical-Reaction Equilibrium Chapter 5: Reaction Kinetics and Reactor Design Chapter 6: Flow of Fluids and Solids Chapter 7: Heat Transfer Chapter 8: Extraction and Leaching Chapter Absorption and Stripping Chapter Liquid Agitation Chapter Size Reduction Chapter Air Pollution Control Chapter Water Pollution Control Chapter Cost Engineering Chapter Other Chemical Engineering Calculations. New calculations reflect the latest greentechnologies and environmental engineering standards. Featuring contributions from global experts, this comprehensive guide is packed with worked-out numerical procedures. Practical techniques help you to solve problems manually or by using computer-based methods. By following the calculations presented in this book, you will be able to achieve accurate results with minimal time and effort. Physical and chemical properties Stoichiometry Phase equilibrium Chemical reaction equilibrium Reaction kinetics, reactor design, and system thermodynamics Flow of fluids and solids Heat transfer Distillation Extraction and leaching Crystallization Absorption and stripping Liquid agitation Size reduction Filtration Air pollution control Water pollution control Biotechnology Cost engineering. Nielsen Book Data Subjects.

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Source: HANDBOOK OF CHEMICAL ENGINEERING CALCULATIONS. SECTION ONE MOLAR GAS CONSTANT Calculate the molar gas constant R in the following units: a.

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Hicks is the author of more than 20 books in engineering and related fields, including Handbook of Energy Engineering Calculations and Civil Engineering Formulas, Second Edition. Nicholas Chopey (deceased) was Editor-in-Chief at Chemical Engineering magazine, with more than 45 years' experience in engineering and publishing.

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portant chemical, biological, physical, safety, and mathe- matical data and concepts that are fundamental to the practice of the chemical engineering profession.