

GLOBAL EDITION

Felder's ELEMENTARY PRINCIPLES OF CHEMICAL PROCESSES

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F. Carl Knopf, 2011-12-14 Energy costs impact the profitability of virtually all industrial processes Stressing how plants use power and how that power is actually generated this book provides a clear and simple way to understand the energy usage in various processes as well as methods for optimizing these processes using practical hands on simulations and a unique approach that details solved problems utilizing actual plant data Invaluable information offers a complete energy saving approach essential for both the chemical and mechanical engineering curricula as well as for practicing engineers

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Written in a clear concise style Principles of Chemical Engineering Processes provides an introduction to the basic principles and calculation techniques that are fundamental to the field The text focuses on problems in material and energy balances in relation to chemical reactors and introduces software that employs numerical methods to solve t [Chemical Engineering Education](#) ,2002

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Mass Balances for Chemical Engineers Gumersindo Feijoo,Juan Manuel Lema,Maria Teresa Moreira,2020-07-20 The fundamentals of mass balances relevant for chemical engineers summarized in an easy comprehensible manner Plenty of example calculations schemes and flow diagrams facilitate the understanding Case studies from relevant topics such as sustainable chemistry illustrate the theory behind current applications [Separation Process Essentials](#) Alan M. Lane,2019-11-07 Separation Process Essentials provides an interactive approach for students to learn the main separation processes distillation absorption stripping and solvent extraction using material and energy balances with equilibrium relationships while referring readers to other more complete works when needed Membrane separations are

included as an example of non equilibrium processes This book reviews and builds on material learned in the first chemical engineering courses such as Material and Energy Balances and Thermodynamics as applied to separations It relies heavily on example problems including completely worked and explained problems followed by Try This At Home guided examples Most examples have accompanying downloadable Excel spreadsheet simulations The book also offers a complementary website <http://separationsbook.com> with supplementary material such as links to YouTube tutorials practice problems and the Excel simulations This book is aimed at second and third year undergraduate students in Chemical engineering as well as professionals in the field of Chemical engineering and can be used for a one semester course in separation processes and unit operations

Membrane Distillation Enrico Drioli, 2018-03-23 This book is a printed edition of the Special Issue Membrane Distillation that was published in Applied Sciences

Process Dynamics and Control Dale E. Seborg, Thomas F. Edgar, Duncan A. Mellichamp, Francis J. Doyle, III, 2016-09-13 The new 4th edition of Seborg's Process Dynamics Control provides full topical coverage for process control courses in the chemical engineering curriculum emphasizing how process control and its related fields of process modeling and optimization are essential to the development of high value products A principal objective of this new edition is to describe modern techniques for control processes with an emphasis on complex systems necessary to the development design and operation of modern processing plants Control process instructors can cover the basic material while also having the flexibility to include advanced topics

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Arabia He s both a chartered scientist and a chartered chemical engineer for more than 15 years and an author of Fortran Programs for Chemical Process Design Analysis and Simulation Gulf Publishing Co and Modeling of Chemical Kinetics and Reactor Design Butterworth Heinemann Provides improved design manuals for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics with new material on significant industry changes since 1995 Maple V: Mathematics and its Applications Robert J.

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Biochemical Engineering Debabrata Das,Debyan Das,2019-07-15 All engineering disciplines have been developed from the basic sciences Science gives us the information on the reasoning behind new product development whereas engineering is the application of science to manufacture the product at the commercial level Biological processes involve various biomolecules which come from living sources It is now possible to manipulate DNA to get the desired changes in biochemical processes This book provides students the knowledge that will enable them to contribute in various professional fields including bioprocess development modeling and simulation and environmental engineering It includes the analysis of different upstream and downstream processes The chapters are organized in broad engineering subdisciplines such as mass and energy balances reaction theory using both chemical and enzymatic reactions microbial cell growth kinetics transport phenomena different control systems used in the fermentation industry and case studies of some industrial fermentation processes Each chapter begins with a fundamental explanation for general readers and ends with in depth scientific details suitable for expert readers The book also includes the solutions to about 100 problems *Numerical Calculations for Process Engineering Using Excel VBA* Chi M. Phan,2023-12-01 Numerical Calculations for Process Engineering Using Excel VBA provides numerical treatment of process engineering problems with VBA programming and Excel spreadsheets The problems are solving material and energy balances optimising reactors and modelling multiple factor processes The book includes both basic and advanced codes for numerical calculations The basic methods are presented in different variations tailored to particular applications Some macros are combined with each other to solve engineering problems Examples

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Myerson, 2002-01-08 Crystallization is an important separation and purification process used in industries ranging from bulk commodity chemicals to specialty chemicals and pharmaceuticals In recent years a number of environmental applications have also come to rely on crystallization in waste treatment and recycling processes The authors provide an introduction to the field of newcomers and a reference to those involved in the various aspects of industrial crystallization It is a complete volume covering all aspects of industrial crystallization including material related to both fundamentals and applications This new edition presents detailed material on crystallization of biomolecules precipitation impurity crystal interactions solubility and design Provides an ideal introduction for industrial crystallization newcomers Serves as a worthwhile reference to anyone involved in the field Covers all aspects of industrial crystallization in a single complete volume Chemical Engineering Design Project Martyn S Ray, 2020-08-12 This new edition follows the original format which combines a detailed case study the production of phthalic anhydride with practical advice and comprehensive background information Guiding the reader through all major aspects of a chemical engineering design the text includes both the initial technical and economic feasibility study as well as the detailed design stages Each aspect of the design is illustrated with material from an award winning student design project The book embodies the learning by doing approach to design The student is directed to appropriate information sources and is encouraged to make decisions at each stage of the design process rather than simply following a design method Thoroughly revised updated and expanded the accompanying text includes developments in important areas and many new references

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