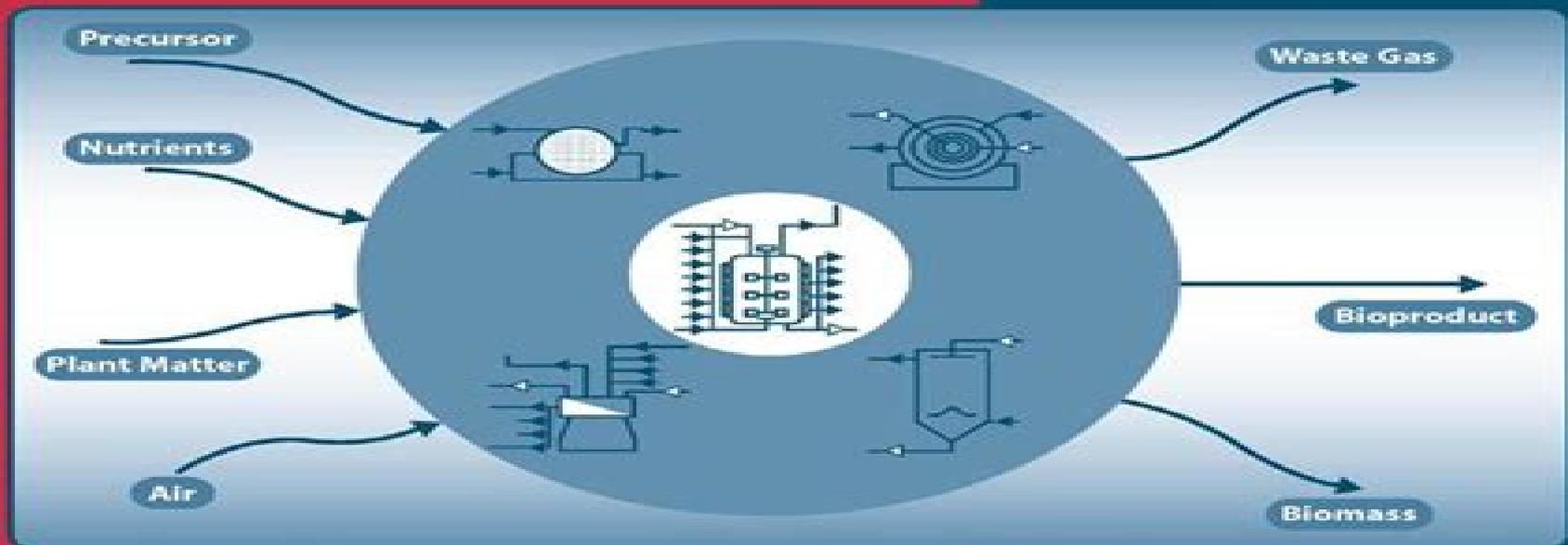


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Chemical and Biochemical Operations



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3rd Edition

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Solutions for Sustainable Development Klára Szita Tóthné, Károly Jármay, Katalin Voith, 2019-09-19 The first International Conference on Engineering Solutions and Sustainable Development which is organized by the University of Miskolc Hungary is a significant and timely initiative creating the capacity of engineering students educators practicing engineers and industries to demonstrate values problem solving skills knowledge and attitude that are required to apply the principles of sustainable development throughout their professional career The aim of the ICESSD conference was creating an interdisciplinary platform for researchers and practitioners to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of Technical and Environmental Science The conference covers the following topics Process Engineering Modelling and Optimisation Sustainable and Renewable Energy and Energy Engineering Waste Management and Reverse Logistics Environmental Management and Ecodesign Circular Economy and Life Cycle Approaches Smart Manufacturing and Smart Buildings Innovation and Efficiency Earth Science Academics scientists researchers and professionals from different countries and continents have contributed to this book

Process Intensification Fernando Israel Gómez-Castro, Juan Gabriel Segovia-Hernández, 2019-10-21 Intensified processes have found widespread application in the chemical and petrochemical industries The use of intensified systems allows for a reduction of operating costs and supports the greening of chemical processes However the design of intensified equipment requires special methodologies This book describes the fundamentals and applications of these design methods making it a valuable resource for use in both industry and academia

Carbon Capture Jennifer Wilcox, 2012-03-28 This book approaches the energy science sub field carbon capture with an interdisciplinary discussion based upon fundamental chemical concepts ranging from thermodynamics combustion kinetics mass transfer material properties and the relationship between the chemistry and

process of carbon capture technologies Energy science itself is a broad field that spans many disciplines policy mathematics physical chemistry chemical engineering geology materials science and mineralogy and the author has selected the material as well as end of chapter problems and policy discussions that provide the necessary tools to interested students

Separation Process Engineering Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation **Computer**

Methods in Chemical Engineering Nayef Ghasem, 2011-08-25 While various software packages have become quite useful for performing unit operations and other kinds of processes in chemical engineering the fundamental theory and methods of calculation must also be understood in order to effectively test the validity of these packages and verify the results Computer Methods in Chemical Engineering presents the most commonly used simulation software along with the theory involved It covers chemical engineering thermodynamics fluid mechanics material and energy balances mass transfer operations reactor design and computer applications in chemical engineering Through this book students learn What chemical engineers do The functions and theoretical background of basic chemical engineering unit operations How to simulate chemical processes using software packages How to size chemical process units manually and with software How to fit experimental data How to solve linear and nonlinear algebraic equations as well as ordinary differential equations Along with exercises and references

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Process Dynamics and Control Dale E. Seborg, Thomas F. Edgar, Duncan A. Mellichamp, Francis J. Doyle, III, 2016-11-16 The new 4th edition of Seborg's Process Dynamics and 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

Membranes for Environmental Applications Zhien Zhang, Wenxiang Zhang, Eric Lichtfouse, 2020-02-29 This book introduces recent developments of membrane technologies applied to gas and water treatments energy processes and environmental issues Novel knowledge and mechanisms on membrane fabrication and usage in energy chemical and environmental engineering are detailed in 12 book chapters from France UK Spain China Nigeria Iran and Pakistan The information in this book will be useful for engineers students and experts in these fields

Separation Process Principles Ernest J. Henley, J. D. Seader, D. Keith Roper, 2011 Completely rewritten to enhance clarity this third edition provides engineers with a strong understanding of the field With the help of an additional co author the text presents new information on bioseparations throughout the chapters A new chapter on mechanical separations covers settling filtration and centrifugation including mechanical separations in biotechnology and cell lysis Boxes help highlight fundamental equations Numerous new examples and exercises are integrated throughout as well In addition frequent references are made to the software products and simulators that will help engineers find the solutions they need

The Chemical Engineer, 1998 *The Canadian Journal of Chemical Engineering*, 2007-02

Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel, and MATLAB Michael B. Cutlip, Mordechai Shacham, 2008 Problem Solving in Chemical and Biochemical Engineering with POLYMATH Excel and MATLAB Second Edition is a valuable resource and companion that integrates the use of numerical problem solving in the three most widely used software packages POLYMATH Microsoft Excel and MATLAB Recently developed POLYMATH capabilities allow the automatic creation of Excel spreadsheets and the generation of MATLAB code for problem solutions Students and professional engineers will appreciate the ease with which problems can be entered into POLYMATH and then solved independently in all three software packages while taking full advantage of the unique capabilities within each package The book includes more than 170 problems requiring numerical solutions This greatly expanded and revised

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Heat Transfer

Mass Transfer

Chemical Reaction Engineering

Phase Equilibrium and Distillation

Process Dynamics and Control

Biochemical Engineering

Practical Aspects of Problem Solving

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Simultaneous Nonlinear Equations

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Chemical Engineering Progress ,2003

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traditionally strong feature of the text economic analysis has been revamped and updated Another strength equipment sizing and cost estimation is updated and expanded as well These improvements also reflect changes in equipment availability The numerous real examples throughout the book include computer or hand solutions and often both There is a new increased emphasis on computer use in design economic evaluation and optimization Concepts strategies and approaches to computer use are featured These concepts are not tied to particular software programs and therefore apply to wide a range of applications software of both current and future release

Chemical Engineering ,1999

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