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Handbook of Separation Process Technology Ronald W.

Rousseau,1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them *Environmental Perspectives* Neil Shiffrin,2014-06-11 This short readable book is intended as a big picture introduction overview for environmental students and lay people involved with environmental issues Every freshman in college intending to study environmental science should read it It begins with a historical perspective on waste and environmental control Basic instruction on some important fundamentals faced by environmental professionals every day such as sampling analysis data visualization risk assessment and forensic chemistry are provided in the following chapter Important regulatory fundamentals such as the National Contingency Plan which is the U S regulatory framework for addressing hazardous waste is also defined The book concludes with pertinent and provocative considerations on the future of environmental management such as alternative approaches technical impracticability the not in my backyard syndrome and the safety of chemicals in consumer products The book contains many useful facts about waste production rates energy use and recycling rates all referenced to allow substantiation and provide a springboard for further research **Computer Methods in Chemical Engineering** Nayef Ghasem,2021-11-23 While various software packages have become essential for performing unit operations and other kinds of processes in chemical engineering the fundamental theory and methods of calculation must also be understood to effectively test the validity of these packages and verify the results Computer Methods in Chemical Engineering Second Edition presents the most 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 The highly anticipated Second Edition is thoroughly updated to reflect the latest updates in the featured software and has added a focus on real reactors introduces AVEVA Process Simulation software and includes new and updated appendixes Through this book students will learn the following 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 each chapter contains a theoretical description of process units followed by numerous examples that are solved step by step via hand calculation and computer simulation using Hysys UniSim PRO II Aspen Plus and SuperPro Designer Adhering to the Accreditation Board for Engineering and Technology ABET criteria the book gives chemical engineering students and professionals the tools to solve real problems involving thermodynamics and fluid phase

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manufacturing processes from both fossil and biomass based feedstocks for graduate students Separation Processes in Biotechnology Juan A. Asenjo,2020-08-26 Edited to avoid duplication and favor comprehensiveness 20 contributors detail the recovery separation and purification operations of bioprocess technology Individual chapters in this classic yet still highly

relevant work emphasize concepts that are becoming more and more important when applied to the large scale versions of techniques that are considered well established. Aside from fully discussing processes, *Separation Processes in Biotechnology* includes sections on concentration separation and operation, purification operations and product release and recovery. It also discusses plant operation and equipment and delves into economic considerations.

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 Phillip Wankat, 2011. 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 of membrane separations and of sorption separations, adsorption, chromatography and ion exchange available. 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. This new edition 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. Author bio: Phillip C Wankat is Clifton L Lovell Distinguished Professor of Chemical Engineering and director of undergraduate degree programs at Purdue University's School of Engineering Education. His current research interests include adsorption, large scale chromatography, simulated moving bed systems and distillation as well as improvements in engineering education. He received the *Chemical Engineering Education* award in 1993.

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 Stanley M. Walas, 1988. *Chemical and petroleum engineering*. U of Kansas presents a minimum of essential theory with numerical examples to illustrate the more involved procedures. Emphasis is placed on short cut methods, rules of thumb and data for design by analogy. A short chapter on costs of equipment is included. The introductory chapters will provide a general background to process design, flowsheeting and process control. Annotation copyrighted by Book News Inc. Portland, OR.

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