

Separation of Molecules, Macromolecules and Particles

Principles, Phenomena and Processes

KAMALESH K. SIRKAR

Separation Of Molecules Macromolecules And Particles
Principles Phenomena And Processes Cambridge Series
In Chemical Engineering 1st Edition By Sirkar Kamalesh
K 2014 Hardcover

Katrin Zwirgmaier



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Separation of Molecules, Macromolecules and Particles Kamalesh K. Sirkar, 2014-01-16 Providing chemical engineering undergraduate and graduate students with a basic understanding of how separation of a mixture of molecules macromolecules or particles is achieved this textbook is a comprehensive introduction to the engineering science of separation Students learn how to apply their knowledge to determine the separation achieved in a given device or process Real world examples are taken from biotechnology chemical food petrochemical pharmaceutical and pollution control industries Worked examples elementary separator designs and chapter end problems are provided giving students a practical understanding of separation The textbook systematically develops different separation processes by considering the forces causing the separation and how this separation is influenced by the patterns of bulk flow in the separation device Readers will be able to take this knowledge and apply it to their own future studies and research in separation and purification Online resources include solutions to the exercises and guidance for computer simulations Separation Processes, 2004

Transport Processes and Separation Process Principles, Global Edition Christie Geankoplis, 2023-06 Separation Process Principles J. D. Seader, Ernest J. Henley, 2005-10-28 Separation Processes, 1992 Separations Chemistry Fedor Macáček, James D. Navratil, 2016-06-06 Separation of chemical species is a gate to final success of synthesis and preparation of compounds in pure and defined state Variability of natural and artificial mixtures to be treated is enormous Task of chemistry is to separate components of homogeneous mixtures the gaseous and liquid solutions The book concentrates on understanding the basic philosophies of both equilibrium and nonequilibrium chemical thermodynamics and engineering performance that lay in principle of separation technique such as distillation crystallization centrifugation sorption membrane separations chromatography and liquid liquid extraction Specific phenomena connected with photochemical separation isotope composition and radioactivity are discussed as well The book is written for advanced students of chemistry having the knowledge of physical chemistry Calculation examples are based on the international system of units Unique list of over 1 300 full references covers scientific literature of the eighteenth to the twenty first centuries **Principles of Chemical Separations with Environmental Applications** Richard D. Noble, Patricia Ann Terry, 2004 An introduction to chemical separations focusing on their use in environmental applications **Separation processes, 1**, 1984

Solid-Liquid Separation Ladislav Svarovsky, 2013-10-22 Solid Liquid Separation Third Edition reviews the equipment and principles involved in the separation of solids and liquids from a suspension Some important aspects of solid liquid separation such as washing flotation membrane separation and magnetic separation are discussed This book is comprised of 23 chapters and begins with an overview of solid liquid separation processes and the principles involved including flotation gravity sedimentation cake filtration and deep bed filtration The following chapters focus on the characterization of particles

suspended in liquids the efficiency of separation of particles from fluids coagulation and flocculation gravity thickening and the operating characteristics optimum design criteria and applications of hydrocyclones The reader is also introduced to various solid liquid separation processes such as centrifugal sedimentation screening and filtration along with the use of filter aids Countercurrent washing of solids and problems associated with fine particle recycling are also considered The final chapter is devoted to the thermodynamics of particle fluid interaction This monograph will be useful to chemical engineers and process engineers particularly those in plant operation plant design or equipment testing and commissioning It can also be used as a textbook for both undergraduate and postgraduate students *Separation Processes* C. Judson

King,2013-12-18 Originally published New York McGraw Hill 1971 2nd ed Includes a new introduction SEPARATION PROCESS PRINCIPLES, 2ND ED Seader,2006-08 Market_Desc Chemical Engineers Students of Engineering Special Features A new section on Dimensions and Units to facilitate the use of the SI AE and CGS systems which permeate applications to separation processes Increased emphasis on the many ways used to express the composition of chemical mixtures New material on the thermodynamics of difficult mixtures including electrolytes polymer solutions and mixtures of light gases and polar organic compounds New sections on the hybrid systems and membrane cascades New section on optimal control as a third mode of operation for batch distillation New discussion on concentration polarization and fouling About The Book Updated to reflect advances in the field the second edition of this highly respected text examines rate based and equilibrium based approaches to separation operations It describes the fundamentals of all separation operations of commercial interest and includes theory and application examples in each chapter as well as over 600 exercises

Separation Process Engineering Phillip C. Wankat,2006-08-11 The Comprehensive Introduction to Standard and Advanced Separation for Every Chemical Engineer Separation Process Engineering Second Edition helps readers thoroughly master both standard equilibrium staged separations and the latest new processes The author explains key separation process with exceptional clarity realistic examples and end of chapter simulation exercises using Aspen Plus The book starts by reviewing core concepts such as equilibrium and unit operations then introduces a step by step process for solving separation problems Next it introduces each leading processes including advanced processes such as membrane separation adsorption and chromatography For each process the author presents essential principles techniques and equations as well as detailed examples Separation Process Engineering is the new thoroughly updated edition of the author s previous book Equilibrium Staged Separations Enhancements include improved organization extensive new coverage and more than 75% new homework problems all tested in the author s Purdue University classes Coverage includes Detailed problems with real data organized in a common format for easier understanding Modular simulation exercises that support courses taught with simulators without creating confusion in courses that do not use them Extensive new coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A detailed introduction to

adsorption chromatography and ion exchange everything students need to understand advanced work in these areas Discussions of standard equilibrium stage processes including flash distillation continuous column distillation batch distillation absorption stripping and extraction *Séparation Processes* C. Judson KING,1986 **PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES** DUTTA, BINAY K.,2007-01-21 This textbook is targetted to undergraduate students in chemical engineering chemical technology and biochemical engineering for courses in mass transfer separation processes transport processes and unit operations The principles of mass transfer both diffusional and convective have been comprehensively discussed The application of these principles to separation processes is explained The more common separation processes used in the chemical industries are individually described in separate chapters The book also provides a good understanding of the construction the operating principles and the selection criteria of separation equipment Recent developments in equipment have been included as far as possible The procedure of equipment design and sizing has been illustrated by simple examples An overview of different applications and aspects of membrane separation has also been provided Humidification and water cooling necessary in every process indus try is also described Finally elementary principles of unsteady state diffusion and mass transfer accompanied by a chemical reaction are covered SALIENT FEATURES A balanced coverage of theoretical principles and applications Important recent developments in mass transfer equipment and practice are included A large number of solved problems of varying levels of complexities showing the applications of the theory are included Many end chapter exercises Chapter wise multiple choice questions An Instructors manual for the teachers **Separation processes, 2** ,1984 Transport Processes and Separation Process Principles (includes Unit Operations) Christie John Geankoplis,2013-07-25 Appropriate for one year transport phenomena also called transport processes and separation processes course First semester covers fluid mechanics heat and mass transfer second semester covers separation process principles includes unit operations The title of this Fourth Edition has been changed from Transport Processes and Unit Operations to Transport Processes and Separation Process Principles Includes Unit Operations This was done because the term Unit Operations has been largely superseded by the term Separation Processes which better reflects the present modern nomenclature being used The main objectives and the format of the Fourth Edition remain the same The sections on momentum transfer have been greatly expanded especially in the sections on fluidized beds flow meters mixing and non Newtonian fluids Material has been added to the chapter on mass transfer The chapters on absorption distillation and liquid liquid extraction have also been enlarged More new material has been added to the sections on ion exchange and crystallization The chapter on membrane separation processes has been greatly expanded especially for gas membrane theory *Separation Process Engineering* Phillip Wankat,2022-10-15 Efficient separation processes are crucial to addressing many societal problems from developing new medicines to improving energy efficiency and reducing emissions Separation Process Engineering Fifth Edition is the most comprehensive accessible guide to modern separation

processes and the fundamentals of mass transfer In this completely updated edition Phillip C Wankat teaches each key concept through detailed realistic examples using actual data with up to date simulation practice spreadsheet based exercises and references Wankat thoroughly covers each separation process including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more His extensive discussions of mass transfer and diffusion enable faculty to teach separations and mass transfer in a single course And detailed material on liquid liquid extraction adsorption chromatography and ion exchange prepares students for advanced work New and updated content includes melt crystallization steam distillation residue curve analysis batch washing the Shanks system for percolation leaching eutectic systems forward osmosis microfiltration and hybrid separations A full chapter discusses economics and energy conservation including updated equipment costs Over 300 new and updated homework problems are presented all extensively tested in undergraduate courses at Purdue University

Transport Processes and Separation Process Principles A. Hersel, Daniel Lepek, Christie Geankoplis, 2018 The Complete Unified Up to Date Guide to Transport and Separation Fully Updated for Today s Methods and Software Tools Transport Processes and Separation Process Principles Fifth Edition offers a unified and up to date treatment of momentum heat and mass transfer and separations processes This edition reorganized and modularized for better readability and to align with modern chemical engineering curricula covers both fundamental principles and practical applications and is a key resource for chemical engineering students and professionals alike This edition provides New chapter objectives and summaries throughout Better linkages between coverage of heat and mass transfer More coverage of heat exchanger design New problems based on emerging topics such as biotechnology nanotechnology and green engineering New instructor resources additional homework problems exam questions problem solving videos computational projects and more Part 1 thoroughly covers the fundamental principles of transport phenomena organized into three sections fluid mechanics heat transfer and mass transfer Part 2 focuses on key separation processes including absorption stripping humidification filtration membrane separation gaseous membranes distillation liquid liquid extraction adsorption ion exchange crystallization and particle size reduction settling sedimentation centrifugation leaching evaporation and drying The authors conclude with convenient appendices on the properties of water compounds foods biological materials pipes tubes and screens The companion website trine.edu/transport5ed contains additional homework problems that incorporate today s leading software including Aspen CHEMCAD MATLAB COMSOL and Microsoft Excel Separation Process Principles J. D. Seader, 2001

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

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