

# **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 Hardcover March 31 2014**

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*Separation of Molecules, Macromolecules and Particles* Kamallesh Sirkar, 2014-01-16 A modern separation process textbook written for advanced undergraduate and graduate level courses in chemical engineering *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 *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*, 1890 **Transport Processes and Separation Process Principles** Christie J. Geankoplis, 2003 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Separation Process Principles Includes Unit Operations This was done because the term Unit Operations has been largely superseded by the term Separation Processes which better reflects the present modern nomenclature being used The main objectives and the format of the Fourth Edition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 Processes* C. Judson King, 2013-12-18 Originally published New York McGraw Hill 1971 2nd ed Includes a new introduction

**Separation Processes**, 1992 *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](http://trine.edu/transport5ed) contains additional homework problems that incorporate today's leading software including Aspen CHEMCAD MATLAB COMSOL and Microsoft Excel

**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

Physical Chemistry of Macromolecules S. F. Sun, 2004-01-28 Integrating

coverage of polymers and biological macromolecules into a single text Physical Chemistry of Macromolecules is carefully structured to provide a clear and consistent resource for beginners and professionals alike The basic knowledge of both biophysical and physical polymer chemistry is covered along with important terms basic structural properties and relationships This book includes end of chapter problems and references and also Enables users to improve basic knowledge of biophysical chemistry and physical polymer chemistry Explores fully the principles of macromolecular chemistry methods for determining molecular weight and configuration of molecules the structure of macromolecules and their separations

Separations Chemistry Fedor Macášek, 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

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

Thermal Separation Processes Klaus Sattler, Hans Jacob Feindt, 2008-07-11 This much needed book presents a clear and very practice oriented overview of thermal separation processes An extensive introduction elucidates the physical and physicochemical fundamentals of different unit operations used to separate homogenous mixtures This is followed by a concise text with numerous explanatory figures and tables referring to process and design flowsheets basic engineering and examples of separation process applications Very helpful guidance in the form of process descriptions calculation models and operation data is presented in an easy to understand manner thereby assisting the practicing engineer in the choosing and evaluation of separation processes and facilitating the modeling and design of innovative equipment A comprehensive reference list provides further opportunity for the following up of special separation problems Chemical and mechanical engineers chemists physicists and biotechnologists in research and development plant design and environmental protection

as well as students in chemical engineering and natural sciences will find this all embracing reference guide of tremendous value and practical use

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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

**Sustainable Separation Engineering** Gyorgy Szekely, Dan Zhao, 2022-04-04

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