



# Separation Processes

**J.G.A. Bitter**



## Separation Processes:

**Industrial Separation Processes** André B. de Haan,H. Burak Eral,Boelo Schuur,2020-07-06 Separation processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry Knowledge of these processes is key for every student of chemical or process engineering This book is ideally suited to university teaching thanks to its wealth of exercises and solutions The second edition boasts an even greater number of applied examples and case studies as well as references for further reading      **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      *Industrial Separation Processes* André B. de Haan,H. Burak Eral,Boelo Schuur,2020-07-06

Separation processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry Knowledge of these processes is key for every student of chemical or process engineering This book is ideally suited to university teaching thanks to its wealth of exercises and solutions The second edition boasts an even greater number of applied examples and case studies as well as references for further reading      **Separation Processes** C. Judson

King,2013-12-18 Originally published New York McGraw Hill 1971 2nd ed Includes a new introduction      Green Separation Processes Carlos A. M. Afonso,João Pedro G. Crespo,2006-05-12 This timely book is the first to provide a comprehensive overview of all important aspects of this modern technology with the focus on the green aspect The expert authors present everything from reactions without solvents to nanostructures for separation methods from combinatorial chemistry on solid phase to dendrimers The result is a ready reference packed full of valuable facts on the latest developments in the field high quality information otherwise widely spread throughout articles and reviews From the contents Green chemistry for sustainable development New synthetic methodologies and the demand for adequate separation processes New developments in separation processes Future trends and needs It is a must have for every researcher in the field

**Reactive Separation Processes** Kulprathipanja,2019-01-15 This book summarizes the available information in six known areas of reactive separation reaction distillation reaction extraction reaction absorption reaction adsorption reaction membrane and reaction crystallization      *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

### **Separation Processes in Waste Minimization**

Robert B. Long, 2020-09-10 This work offers an accessible discussion of current and emerging separation processes used for waste minimization showing how the processes work on a day to day basis and providing troubleshooting tips for equipment that doesn't function according to design specifications It describes the fundamentals of over 30 processes types of equipment available vendors and common problems encountered in operations with hazardous waste

*Thermal Induced Membrane Separation Processes* Mihir Kumar Purkait, Randeep Singh, Piyal Mondal, Dibyajyoti Haldar, 2020-04-07 Thermal Induced Membrane Separation Processes describes the fundamental and advanced areas associated with the field of thermal induced membrane separation processes It includes extensive coverage of material selection types and theory of thermal induced membrane fabrication characterization and modification This book focuses on the applications of various thermal induced membrane processes and discusses ancillary topics related to the subject such as membrane modules membrane contactors and reactors preparation and characterization techniques smart membranes fouling and its mitigation and economic analysis of the thermal induced membrane separation processes Thermal Induced Membrane Separation Processes elaborates on every aspect on the thermal induced membranes in a simple and straightforward manner helping readers ranging from students to researchers in academia and the industry to understand the processes for successful execution and implementation into their research

### **Principles of Mass Transfer and Separation Processes** Mr. Sanjeev

Pandey, 2024-08-16 This book explains core concepts of mass transfer including diffusion convection and phase equilibrium and covers separation techniques such as distillation absorption extraction and membrane processes with practical chemical engineering applications

**Ionic Liquids for Better Separation Processes** Héctor Rodríguez, 2015-12-16 This book discusses capital separation processes of industrial interest and explores the potential for substantial improvement offered by a promising class of substances ionic liquids These low melting point salts with their unique characteristics have been gaining relevance in the field of separation through a variety of approaches The chapters are structured from an application perspective and cover the utilisation of ionic liquids in different unit operation contexts distillation liquid liquid extraction and solid liquid extraction giving an idea of their remarkable versatility The final chapters focus on the use of ionic liquids in analytical applications based on separation procedures This volume combines the review of the main advances to date with

the analysis of the potential future use of ionic liquids in separation processes across a variety of fields ranging from enhancement of state of the art technologies to a revolution in the technological bases currently in use It provides a valuable resource for engineers and scientists working in the field of separation as well as for all readers generally interested in ionic liquids in particular from an application standpoint Hector Rodriguez is a faculty member of the Department of Chemical Engineering at the University of Santiago de Compostela Spain

### **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

*Transport Mechanisms in Membrane Separation Processes* J.G.A. Bitter,2012-12-06 The present book contains a comparison of existing theoretical models developed in order to describe membrane separation processes In general the permeation equations resulting from these models give inaccurate predictions of the mutual effects of the permeants involved due to the simplifications adopted in their derivation It is concluded that an optimum description of transport phenomena in tight diffusion type membranes is achieved with the solution diffusion model According to this model each component of a fluid mixture to be separated dissolves in the membrane and passes through by diffusion in response to its gradient in the chemical potential A modified Flory Huggins equation has been derived to calculate the solubility of the permeants in the membrane material Contrary to the original Flory Huggins equation the modified equation accounts for the large effect on solubility of crystallinity and elastic strain of the polymer chains by swelling The equilibrium sorption of liquids computed with this equation was found to be in good agreement with experimental results Also the sorption of gases in both rubbery and glassy polymers could be described quantitatively with the modified Flory Huggins equation without any need of the arbitrary Langmuir term as required in the conventional dual mode sorption model Furthermore fewer parameters are required than with the at least identical accuracy

### **Separation Processes in the Food and Biotechnology Industries** A S Grandison,M J Lewis,1996-01-01 This book

reviews methods and techniques for separating food components and products of the biotechnology industry The introduction focuses on food composition and some of the conventional separation techniques Subsequent chapters deal with each specific type or area of application individually and include information on the basic principles industrial equipment available commercial applications and an overview of research and development

*Surfactant - Based Separation Processes* John F. Scamehorn,2020-11-26 Focuses on novel techniques and reviews established methods for surfactant based separation processes that can be widely applied in industry Describes new extraction techniques micellar enhanced ultrafiltration and

admicellar chromatography protein extraction using reverse micelles surfactant en      *Synthetic Membranes and Membrane Separation Processes* Takeshi Matsuura, 2020-09-10 *Synthetic Membranes and Membrane Separation Processes* addresses both fundamental and practical aspects of the subject Topics discussed in the book cover major industrial membrane separation processes including reverse osmosis ultrafiltration microfiltration membrane gas and vapor separation and pervaporation Membrane materials membrane preparation membrane structure membrane transport membrane module and separation design and applications are discussed for each separation process Many problem solving examples are included to help readers understand the fundamental concepts of the theory behind the processes The book will benefit practitioners and students in chemical engineering environmental engineering and materials science      **Graphical Correlation of Recovery and Product Composition in Separation Processes** Foster Fraas, 1942      School of Bio and Chemical Engineering : Processes and Separation in Chemical Industry Mr. Rohit Manglik, 2024-04-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      **Separation Process Engineering** Phillip C. Wankat, 2022-10-24 The Definitive Learner Friendly Guide to Chemical Engineering Separations Extensively Updated Including a New Chapter on Melt Crystallization 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 New chapter on melt crystallization solid liquid phase equilibrium suspension static and falling film layer approaches and 34 questions and problems New binary VLE equations and updated content on simultaneous solutions New coverage of safety and fire hazards New material on steam distillation simple multi component batch distillation and residue curve analysis Expanded discussion of tray efficiencies packed column design and energy

reduction in distillation New coverage of two hybrid extraction with distillation and the Kremser equation in fractional extraction Added sections on deicing with eutectic systems eutectic freeze concentration and scale up New sections on forward osmosis and microfiltration Expanded advanced content on adsorption and ion exchange including updated instructions for eight detailed Aspen Chromatography labs Discussion of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and applications Thirteen up to date Aspen Plus process simulation labs adaptable to any simulator This guide reflects an up to date understanding of how modern students learn designed organized and written to be exceptionally clear and easy to use It presents detailed examples in a clear standard format using real data to solve actual engineering problems preparing students for their future careers

*MEMBRANE SEPARATION PROCESSES*

KAUSHIK NATH, 2017-01-01 This concise and systematically organized text now in its second edition gives a clear insight into various membrane separation processes It covers the fundamentals as well as the recent developments of different processes along with their industrial applications and the products It includes the basic principles operating parameters membrane hardware flux equation transport mechanism and applications of membrane based technologies Membrane separation processes are largely rate controlled separations which require rate analysis for complete understanding Moreover a higher level of mathematical analysis along with the understanding of mass transfer is also required These are amply treated in different chapters of the book to make the students comprehend the membrane separation principles with ease This textbook is primarily designed for undergraduate students of chemical engineering biochemical engineering and biotechnology for the course in membrane separation processes Besides the book will also be useful to process engineers and researchers

**KEY FEATURES** Provides sufficient number of examples of industrial applications related to chemical metallurgical biochemical and food processing industries Focuses on important biomedical applications of membrane based technologies such as blood oxygenator controlled drug delivery plasmapheresis and bioartificial organs Includes chapter end short questions and problems to test students comprehension of the subject

**NEW TO THIS EDITION** A new section on membrane cleaning is included Membrane fabrication methods are supplemented with additional information Chapter 2 Additional information on silt density index forward osmosis and sea water desalination Chapter 3 Physicochemical parameters affecting nanofiltration determination of various resistances using resistance in series model and few more industrial applications with additional short questions Chapter 4 Membrane cross linking methods used in pervaporation factors affecting pervaporation and few more applications Chapter 9 Membrane distillation membrane reactor with different modules types of membranes and reactions for membrane reactor Chapter 13

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