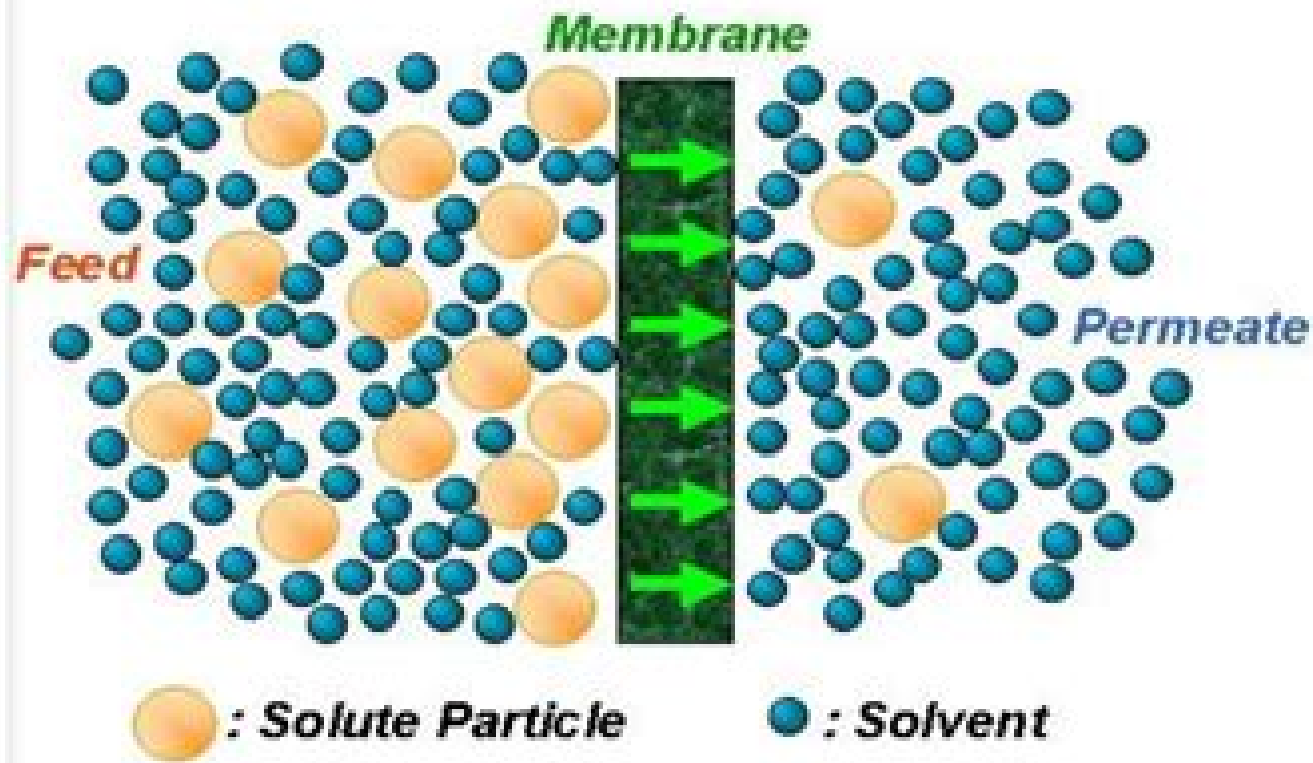


Membrane Separation Processes



Membrane Separation Processes Membrane Separation Processes

J.G.A. Bitter



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MEMBRANE SEPARATION PROCESSES, SECOND EDITION NATH, KAUSHIK, 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: **Ion-Exchange Membrane Separation Processes**

H. Strathmann, 2004-01-29 Today membranes and membrane processes are used as efficient tools for the separation of liquid mixtures or gases in the chemical and biomedical industry, in water desalination, and wastewater purification. Despite the fact that various membrane processes like reverse osmosis are described in great detail in a number of books, processes involving ion exchange membranes are only described in a fragmented way in scientific journals and patents, even though large industrial applications like electrodialysis have been around for over half a century. Therefore, this book is emphasizing on the most relevant aspects of ion exchange membranes. This book provides a comprehensive overview of ion exchange membrane separation processes, covering the fundamentals as well as recent developments of the different products and processes and their applications. The audience for this book is heterogeneous as it includes plant managers and process engineers as well as research scientists and graduate students. The separate chapters are based on different topics. The first chapter describes the relevant Electromembrane processes in a

general overview The second chapter explains thermodynamic and physicochemical fundamentals The third chapter gives information about ion exchange membrane preparation techniques while the fourth and fifth chapter discusses the processes as unit operations giving examples for the design of specific plants First work on the principles and applications of electrodialysis and related separation processes Presently no other comprehensive work that can serve as both reference work and text book is available Book is suited for teaching students and as source for detailed information

Membrane Separation Processes Ahmad Fauzi Ismail, Takeshi Matsuura, 2021-10-15 Membrane Separation Processes Theories Problems and Solutions provides graduate and senior undergraduate students and membrane researchers in academia and industry with the fundamental knowledge on the topic by explaining the underlying theory that is indispensable for solving problems that occur in membrane separation processes All major membrane processes are discussed and an economic analysis is provided Separation processes such as RO UF MF RO PRO and MD are thoroughly discussed During the last two decades the scope of the R D of membrane separation processes has been significantly broadened Other sections in the book cover membrane contactor and membrane adsorption In addition hybrid systems in which two or more membrane systems are combined are now being investigated for large scale applications Written by renowned experts with extensive experience with industry education and R D who have complementary expertise In depth coverage of the most important conventional and emerging membrane processes Provides fundamental membrane theories for solving problems in separation processes without using complicated software

Membrane Processes in Separation and Purification J.G. Crespo, Karl W. Böddeker, 2013-11-11 The chapters of this book are based upon lectures presented at the NATO Advanced Study Institute on Membrane Processes in Separation and Purification March 21 April 2 1993 Curia Portugal organized as a successor and update to a similar Institute that took place 10 years ago p M Bungay H K Lonsdale M N de Pinho Eds Synthetic Membranes Science Engineering and Applications NATO ASI Series Reidel Dordrecht 1986 The decade between the two NATO Institutes witnesses the transition from individually researched membrane processes to an applied and established membrane separation technology as is reflected by the contents of the corresponding proceeding volumes By and large the first volume presents itself as a textbook on membrane processes still valid while the present volume focuses on areas of separation need as amenable to membrane processing Biotechnology and Environmental Technology Accordingly the contributions to this volume are grouped into Membranes in Biotechnology 11 papers Membranes in Environmental Technology 6 papers and New Concepts 4 papers This is followed by one contribution each on Energy Requirements and Education i e membrane processes within an academic curriculum The book thus amounts to a state of the art of applied membrane processing and may well augment the more fundamental approach of its predecessor

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 *Membrane Separations Technology* R.D. Noble,S.A. Stern,1995-01-17 The field of membrane separation technology is presently in a state of rapid growth and innovation Many different membrane separation processes have been developed during the past half century and new processes are constantly emerging from academic industrial and governmental laboratories While new membrane separation processes are being conceived with remarkable frequency existing processes are also being constantly improved in order to enhance their economic competitiveness Significant improvements are currently being made in many aspects of membrane separation technology in the development of new membrane materials with higher selectivity and or permeability in the fabrication methods for high flux asymmetric or composite membranes in membrane module construction and in process design Membrane separation technology is presently being used in an impressive variety of applications and has generated businesses totalling over one billion U S dollars annually The main objective of this book is to present the principles and applications of a variety of membrane separation processes from the unique perspectives of investigators who have made important contributions to their fields Another objective is to provide the reader with an authoritative resource on various aspects of this rapidly growing technology The text can be used by someone who wishes to learn about a general area of application as well as by the knowledgeable person seeking more detailed information **Handbook of Membrane Separations** Anil Kumar Pabby,Syed S.H. Rizvi,Ana Maria Sastre Requena,2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores **Membrane Separation Processes** Patrick Meares,1976 *Membrane Processing for Dairy Ingredient Separation* Kang Hu,James Dickson,2015-06-18 Membrane processing is a filtration technique in which particles are separated from liquids by being forced through a porous material or membrane Applied to dairy products the separation techniques allow valuable compounds found in milk to be isolated for use as ingredients in food processing A comprehensive overview of membrane separation processes this book explores various applications such as pressure driven processes electrical field driven processes and concentration driven processes for the recovery of various dairy streams and ingredients The topics covered place emphasis on new applications including microfiltration ultrafiltration reverse osmosis electrodialysis and pervaporation The text also presents in depth knowledge of the mechanisms of each membrane separation process as well as membrane

types and the equipment used in these processes Combining their educational backgrounds and substantial industrial experience in dairy ingredients processes the authors address cutting edge technologies that have been thoroughly researched and have great potential to be commercialized in the near future The book will therefore be of interest to dairy industry professionals and will serve as a source of reference material for professors and students in food science and engineering

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

Membrane Technology in Separation Science Mihir Purkait,Randeep Singh,2018-02-19 The book explains fundamental and advanced topics related to the field of membrane science including extensive coverage of material selection preparation characterization and applications of various membranes Explores both preparation and wide range of applications for all possible membranes contains an exclusive chapter on functionalized membranes and incorporation of stimuli responsive membranes in each type and includes exercise problems after each chapter It also discusses new membrane operations as membrane reactors and membrane contactors

Industrial Membrane Separation Technology K. Scott,R. Hughes,1996 Although membrane separations can now routinely replace traditional separations there is a need for the new developments in the applications and theories of membrane separation to be transmitted to industry to continue the drive forward in membrane development This book presents new developments in the context of industrial technology and relates the principles of design to plant set up and equipment selection

Engineering Aspects of Membrane Separation and Application in Food Processing Robert W. Field,Erika Bekassy-Molnar, Frank Lipnizki,Gyula Vatai,2017-06-26 Engineering Aspects of Membrane Separation and Application in Food Processing presents an overview and introduction to a wide range of membrane processes their unique characteristics and challenges In the food industry as in many industries membranes have an environmental advantage over conventional

processes that they displace because they are less energy intensive The processing at near ambient conditions also retains flavors and nutritional value These advantages together with significant reductions in the cost of membrane modules augers well for their future not only in the dairy industry but in other parts of the food industry such as alcohol processing animal product processing and fruit and vegetable processing Chapters address a wide range of membranes separations in the food and beverage industries and applications are provided that will be of value not only to food engineers but also to process engineers working in other areas The processing of food is now a highly interdisciplinary science and anyone concerned with food processing will benefit from reading this book and understanding what membrane processes of the twenty first century have to offer Ceramic Membranes Applied in Separation Processes Dionisio da Silva Biron,Venina dos Santos,Mara

Zeni,2017-05-18 This book covers diverse types of ceramic membranes applied in separation processes The authors present the preparation methods and well as the main application of ceramic membranes Modules microfiltration and ultrafiltration are topics described within the text The final chapter focuses on water and wastewater treatment by membranes separation processes **Membrane Separation Systems** R.W. Baker,1991 Describes research needed to bring energy saving

membrane separation processes to technical and commercial readiness for commercial acceptance within the next 5 to 20 years NDICE Volume I 1 Executive Summary 2 Assessment Methodology 3 Introduction 4 Government Support of Membrane Research 5 Analysis of Research Needs Appendix A Peer Reviewers Comments Volume II Introduction to Volume II 1 Membrane and Module Preparation 2 Pervaporation 3 Gas Separation 4 Facilitated Transport 5 Reverse Osmosis 6

Microfiltration 7 Ultrafiltration 8 Electrodialysis 9 Glossary of Symbols and Abbreviations **Membrane Process Design Using Residue Curve Maps** Mark Peters,David Glasser,Diane Hildebrandt,Shehzaad Kauchali,2011-04-20 Design and Synthesis of Membrane Separation Processes provides a novel method of design and synthesis for membrane separation While the main focus of the book is given to gas separation and pervaporation membranes the theory has been developed in such a way that it is general and valid for any type of membrane The method which uses a graphical technique allows one to calculate and visualize the change in composition of the retentate non permeate phase This graphical approach is based on Membrane Residue Curve Maps One of the strengths of this approach is that it is exactly analogous to the method of Residue Curve Maps that has proved so successful in distillation system synthesis and design **Proceedings of the International**

Technical Conference on Membrane Separation Processes A. Green,1989 The book features many figures and tables illustrating longitudinal data and numerous homework problems The associated web site contains many longitudinal data sets examples of computer code and labs to re enforce the material Weiss emphasizes continuous data rather than discrete data graphical and covariance methods and generalizations of regression rather than generalizations of analysis of variance

Membrane Engineering for the Treatment of Gases Enrico Drioli,Giuseppe Barbieri,2011-07-06 Membranes already have important applications in artificial organs the processing of biotechnological products food manufacture waste water

treatment and seawater desalination Their uses in gaseous mixture separations are however far from achieving their full potential Separation of air components natural gas dehumidification and sweetening separation and recovery of CO₂ from biogas and H₂ from refinery gases are all examples of current industrial applications The use of membranes for reducing the greenhouse effect and improving energy efficiency has also been suggested New process intensification strategies in the petrochemical industry have opened up another growth area for gas separation membrane systems and membrane reactors This two volume set presents the state of the art in membrane engineering for the separation of gases It addresses future developments in carbon capture and utilization H₂ production and purification and O₂ N₂ separation Topics covered include the applications of membrane gas separation in the petrochemical industry implementation of membrane processes for post combustion capture commercial applications of membranes in gas separations simulation of membrane systems for CO₂ capture design and development of membrane reactors for industrial applications Pd based membranes in hydrogen production modelling and simulation of membrane reactors for hydrogen production and purification novel hybrid membrane pressure swing adsorption process for gas separation molecular dynamics as a new tool for membrane design and physical aging of membranes for gas separations Volume 1 focuses predominantly on problems relating to membranes

Membrane Technology: Applications to Industrial Wastewater Treatment Ana Caetano, 1995 Presents case studies of how new membrane separation techniques are being used to minimize the environmental impact of pollution from textile tannery pulp and paper metal finishing and electroplating food and other industries in order to comply with increasing by stricter European standards The 13 lectures are from an advanced course given in Sipra Italy in October 1992 Addressed to engineers technical managers and graduate students No index Annotation copyright by Book News Inc Portland OR

Pervaporation Membrane Separation Processes Robert Y. M. Huang, 1991 Hardbound Covered here are the various aspects of pervaporation theory and principles separation characteristics sorption and diffusion thermodynamics and evaluation of polymer materials for membranes as well as plant design and optimization The book also includes interesting new material on the synthesis of novel copolymer membranes with very high separation potential and future implications for the pervaporation separation of biological systems and its applications in the exciting field of biochemical engineering Special attention is paid to industrial research and applications of pervaporation membranes and plant operations involving new pervaporation processes The book also includes a chapter dealing with the development of vapour permeation for industrial applications which is a new variant of liquid pervaporation processes

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