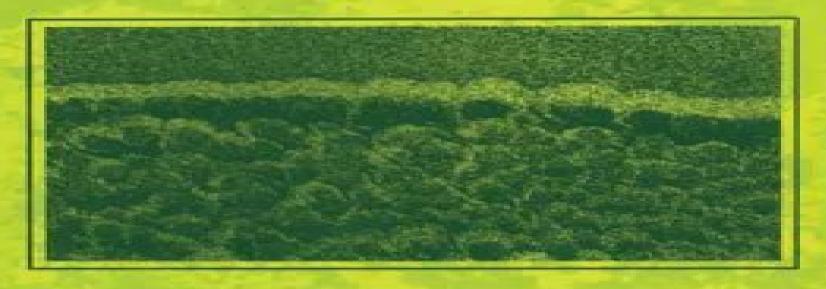
Synthetic Membranes and Membrane Separation Processes



Takeshi Matsuura

Synthetic Membranes And Membrane Separation Processes

KAUSHIK NATH

Synthetic Membranes And Membrane Separation Processes:

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 Handbook of Membrane Separations Anil K. Pabby, S. Ranil Wickramasinghe, Ana-Maria Sastre, 2023-12-22 The science third edition of the Handbook of Membrane Separations Chemical Pharmaceutical Food and Biotechnological Applications provides a comprehensive discussion of membrane applications Fully updated to include the latest advancements in membrane science and technology it is a one of its kind overview of the existing literature This fully illustrated handbook is written by experts and professionals in membrane applications from around the world Key Features Includes entirely new chapters on organic solvent resistant nanofiltration membrane condensers membrane reactors in hydrogen production membrane materials for haemodialysis and integrated membrane distillation Covers the full spectrum of membrane technology and its advancements Explores membrane applications in a range of fields from biotechnological and food processing to industrial waste management and environmental engineering This book will appeal to both newcomers to membrane science as well as engineers and scientists looking to expand their knowledge on upcoming advancements in the field 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 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 Membrane Separation Technology K. Scott, R. Hughes, 2012-12-06 Membrane science and technology is an expanding field and has become a prominent part of many activities within the process industries It is relatively easy to identify the success stories of membranes such as desali nation and microfiltration and to refer to others as developing areas This however does not do justice to the wide field of separations in which membranes are used No other single process offers the same potential and versatility as that of membranes The word separation classically conjures up a model of removing one component or species from a second component for example a mass transfer process such as distillation In the field of synthetic membranes the terminology separation is used in a wider context A range of separations of the chemical mass transfer type have developed around the use of membranes including distillation extraction absorption and stripping as well as separations of the physical type such as filtration Synthetic membranes are an integral part of devices for analysis energy generation and reactors cells in the electrochemical industry **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: P.M. Bungay,H.K. Lonsdale,M.N. de Pinho,2012-12-06 The chapters in this book are based upon lectures given at the NATO Advanced Study Institute on Synthetic Membranes June 26 July 8 1983 Alcabideche Portugal which provided an integrated presentation of syn thetic membrane science and technology in three broad areas Currently available membrane formation mechanisms are reviewed as well as the manner in which synthesis conditions can be controlled to achieve desired membrane structures Membrane performance in a specific separa tionprocess involves complex phenomena the understanding of which re quires a multidisciplinary approach encompassing polymer chemistry phys ical chemistry and chemical engineering Progress toward a global understanding of membrane phenomena is described in chapters on the principles of membrane transport The chapters on membrane processes and applications highlight both established and emerging membrane processes and elucidate their myriad applications. It is our hope that this book will be an enduring comprehensive compen dium of the state of knowledge in the field of synthetic membranes. We have been encouraged in that hope by numerous expressions of interest in the book coming from a variety of potential users

Ultrafiltration and Microfiltration Handbook Munir Cheryan,1998-01-26 Soon after its publication in 1987 the first edition of Ultrafiltration Handbook became recognized as the leading handbook on ultrafiltration technology Reviews in professional journals praised it as an authoritative and substantive information resource on this technology Now a completely updated and expanded edition is available under the titl Microfiltration and Ultrafiltration Zeman,2017-11-22 Integrates knowledge on microfiltration and ultrification membrane chemistry and characterization methods with the engineering and economic aspects of device performance device and module design processes and applications The text provides a discussion of membrane fundamentals and an analytical framework for designing and developing new filtrations systems for a broad range of technologically important functions It offers information on membrane liquid precursors fractal and stochastic pore space analysis novel and advanced module designs and original process design calculations Wastewater Recycling,

Reuse, and Reclamation - Vol. I Saravanamuthu Vigneswaran, 2009-11-30 Total supply of fresh water on earth far exceeds human demand However scarcity of water currently faced in many regions of the world is caused by two reasons First its availability in time and space is not equally distributed. Thus there is problem of water in the wrong place or at the wrong time and in wrong quantities Second while the population growth and expanded industrial activities are increasing demands on available water resources they also jeopardize the availability of freshwater in adequate quantities by discharge of pollutants into freshwater sources It is at times like these when the rising curve of water demand intersects the fluctuating curve of water availability recycle and reuse of wastewater is seriously considered Wastewater recycling reuse and reclamation have been now accepted as appropriate ways to conserve water resources as well as to contain polluted waters from contaminating other available clean water sources This book gives a comprehensive review on water quantity and quality simple water supply and sanitation systems and leads to domestic agricultural and industrial water reuse Thus it will provide useful information not only to technologists but also for planners managers and NGOs involved in the water sector The contribution to the book comes from a broad pool of experts working on technology policy health and economy aspects of water management Involvement of both academics and industry personnel from developing and developed countries makes this contribution broader and useable for a wide readership PRINCIPLES OF MASS TRANSFER KAL RENGANATHAN SHARMA, 2007-01-21 This book addresses the specific needs of undergraduate chemical engineering students for the two courses in Mass Transfer I and Mass Transfer II It is also suitable for a course in Downstream Processing for biotechnology students This self contained textbook is designed to provide single volume coverage of the full spectrum of techniques for chemical separations The operations covered include vapour distillation fluid adsorption gas absorption liquid extraction solid leaching gas humidification solid drying foam separation solution crystallization metal alloying reverse osmosis molecular sieves electrodialysis and ion exchange The text also discusses emerging applications such as drug delivery gel electrophoresis bleaching membrane separations polymer devolatilization solution crystallization and gas chromatography Equipment selection is discussed for different operations A table of industrial applications for each and every mass transfer unit operation is provided The worked examples illustrate problems from chemical process and biotechnology industries Review questions encourage critical thinking and end of chapter problems emphasize grasping of the fundamentals as well as illustrate applications of theory to a wide variety of scenarios KEY FEATURES Includes several case studies ranging from manufacture of vitamin C prilling tower to granulate urea to vanaspati discolouration and wilting of the lettuce Introduces generalized Fick's law of diffusion Discusses hollow fibre mass exchangers Introduces new concepts such as cosolvent factor Z step procedure for multistage cross current extraction Polymer Science and Technology Joel R. Fried, 2014 This text describes how plastics rubber and fibers are synthesized processed into useful materials characterized and compounded with fillers and other additives to improve performance for specific applications. Their use in a wide variety of technologies

including membrane separations electronics and energy production and storage is described A new chapter in the Third Edition shows how computer correlations and simulations can be used to predict properties of new plastics and to better understand how existing plastics perform Pollution Prevention through Process Integration Mahmoud M. El-Halwagi, 1997-08-19 The environmental impact of industrial waste is one of the most serious challenges facing the chemical process industries From a focus on end of pipe treatment in the 1970s chemical manufacturers have increasinglyimplemented pollution prevention policies in which pollutants are mitigated at the source or separated and recovered and then reused or sold This book is the first to present systematic techniques for cost effective pollution prevention altering what has been an art that depends on experience and subjective opinion into a science rooted in fundamental engineering principles and process integration Step by step procedures are presented that are widely applicable to the chemical petrochemical petroleum pharmaceutical food and metals industries Various levels of sophistication ranging from graphical methods to algebraic procedures and mathematical optimization numerous applications and case studies and integrated software for optimizing waste recovery systems make Pollution Prevention through Process Integration Systematic Design Tools a must read for a wide spectrum of practicing engineers environmental scientists plant managers advanced undergraduate and graduate students and researchers in the areas of pollution prevention and process integration Allows the reader to establish pollution prevention targets for a process and then develop implementable cost effective solutions Contains step by step procedures that can be applied to environmental problems in a wide variety of process industries Integrates pollution prevention with other process objectives Author is internationally recognized for pioneering work in developing mass integration science and technology Food Analysis Dieter W. Gruenwedel, John R. Whitaker, 1986-11-07 With advances in techniques and technology coupled with the growing need to deal withthe problems associated with quality assurance product development and food safety the science of food analysis has developed rapidly in recent years Food Analysis Principles and Techniques provides an unparalleled source of information for all aspects of this field filling your needs for up to date detailed treatment of the methods of food analysis Volume 2 of this important 8 volume treatise focuses on essential physicochemical techniques ranging from the measurement of physical parameters such as temperature solubility and viscosity to the determination of food components at the supramolecular and atomic levels Incorporating the latest developments in instrumentation that facilitate rapid quantitative analysis Physicochemical Techniques assures you comprehensive accurate coverage that you can turn to time and time again Consolidating the expertise of renowned international authorities Food Analysis Principles and Techniques serves as the complete state of the art reference and the basis for continuing development For all food analysts in industry government and academia including food scientists chemists biochemists nutritionists environmental chemists and microbiologists this major resource will be the standard by which other works are compared Also graduate students in food science and nutrition will find each volume of this work indispensable in

their stu Coulson and Richardson's Chemical Engineering Ajay Kumar Ray, 2023-06-28 Coulson and Richardson's Chemical Engineering Volume 2B Separation Processes Sixth Edition covers distillation and gas absorption illustrating applications of the fundamental principles of mass transfer Several techniques including adsorption ion exchange chromatographic membrane separations and process intensification are comprehensively covered and explored Presents content converted from textbooks into fully revised reference material Provides content that ranges from foundational to technical Includes new additions such as emerging applications numerical methods and computational tools Management, Purification, and Conservation in Arid Climates Mattheus F. A. Goosen, Walid H. Shayya, 1999-09-28 This three volume series presents a broad and integrated approach to water management purification and conservation in arid climates Volume one includes an introductory chapter on water problems and water resources in arid climates followed by specific chapters covering various aspects of water management Volumes two and three deal with water purification and water conservation respectively Many textbooks on water issues normally deal with only one of these areas This series covers all three areas with an emphasis on the problems faced by arid regions. The three volume series will appeal to industry specialists in desalination and wastewater treatment irrigation engineers graduate and undergraduate students in hydrology water management and conservation professionals government personnel involved in water resources development decision makers environmentalists employees of the petrochemical industry and individuals wishing to specialize in water management purification and conservation Engineering Processes for Bioseparations LAURENCE R. WEATHERLEY, 2013-10-22 The use of biotechnology in chemical synthesis offers up numerous advantages to the engineer in the process industries but it also presents a number of fundamental challenges and difficulties which impinge directly on separation process requirements The use of biochemical separations has grown significantly during the past decade and is especially used in process industries such as healthcare and food processing However it is becoming increasingly more important in areas such as recycling and waste water treatment and as industry shifts towards cleaner processes biochemical separations will continue to grow The two main objectives of this book are to focus on the application of existing separation process techniques to the recovery and purification of biologically derived products and to examine the state of knowledge of new techniques which have future potential Within these objectives the complexities and breadth of problems associated with biological separations are discussed specific engineering techniques are featured and their adaptation to biochemical separations are highlighted Transport Phenomena in Multiphase Systems João M.P.Q. Delgado, Antonio Gilson Barbosa de Lima, 2018-05-09 This book presents a collection of recent contributions in the field of transport phenomena in multiphase systems namely heat and mass transfer It discusses various topics related to the transport phenomenon in engineering including state of the art theory and applications and introduces some of the most important theoretical advances computational developments and technological applications in multiphase systems domain providing a self contained key

reference that is appealing to scientists researchers and engineers alike At the same time these topics are relevant to a variety of scientific and engineering disciplines such as chemical civil agricultural and mechanical engineering

Separation and Purification Technology Norman Li,2013-12-16 This book provides a sampler of developments in separation and purification technology focusing on the application of membrane based separations in biotechnology commercial applications of emulsion liquid membranes and economic evaluation of membrane technology Chemistry for Protection of the Environment 1985 G. Alaerts, L. Pawlowski, W.J. Lacy, 1986-01-01 The main theme of this symposium was the application of chemical methods for water and wastewater treatment and their effect on the environment The participants represented many countries and many disciplines and taken together their papers provide a very interesting overview of the way in which chemical processes are used in different parts of the world The contributions from the USA are mainly devoted to methods for reducing the environmental hazard of alternative energy sources such as oil shales and tar sands A fresh interest in coal and lignite is also apparent in the papers from Canada and from western and eastern Europe Many papers and discussions deal with the related technology of desulphurisation of coal and oil during combustion or in exhaust gases much of the research in this area being inspired by the problems of acid rain and the damage to forests in the northern hemisphere

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