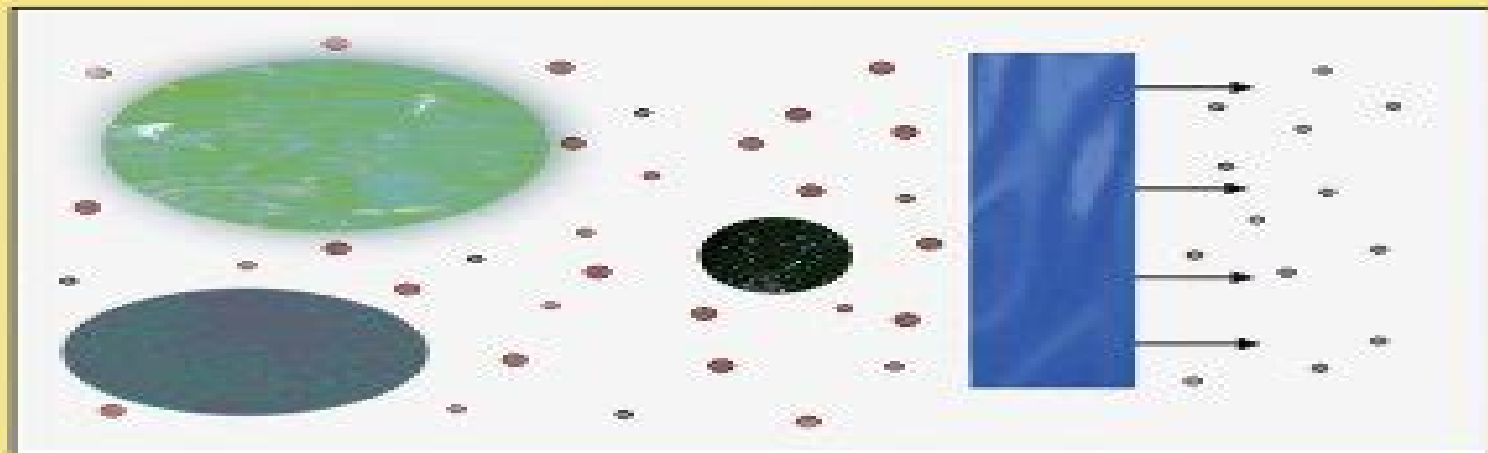


Advanced Membrane Technology and Applications



AIChE₁₀₀

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Advanced Membrane Technology And Applications

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Advanced Membrane Technology And Applications:

Advanced Membrane Technology and Applications Norman N Li, Anthony G. Fane, W. S. Winston Ho, Takeshi Matsuura, 2011-09-20 Advanced membranes from fundamentals and membrane chemistry to manufacturing and applications A hands on reference for practicing professionals Advanced Membrane Technology and Applications covers the fundamental principles and theories of separation and purification by membranes the important membrane processes and systems and major industrial applications It goes far beyond the basics to address the formulation and industrial manufacture of membranes and applications This practical guide Includes coverage of all the major types of membranes ultrafiltration microfiltration nanofiltration reverse osmosis including the recent high flux and low pressure membranes and anti fouling membranes membranes for gas separations and membranes for fuel cell uses Addresses six major topics membranes and applications in water and wastewater membranes for biotechnology and chemical biomedical applications gas separations membrane contractors and reactors environmental and energy applications and membrane materials and characterization Includes discussions of important strategic issues and the future of membrane technology With chapters contributed by leading experts in their specific areas and a practical focus this is the definitive reference for professionals in industrial manufacturing and separations and research and development practitioners in the manufacture and applications of membranes scientists in water treatment pharmaceutical food and fuel cell processing industries process engineers and others It is also an excellent resource for researchers in industry and academia and graduate students taking courses in separations and membranes and related fields

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

Membrane Technology and Applications Richard W. Baker, 2004-05-31 Table of Contents Preface Acknowledgments for the first edition Acknowledgments for the second edition 1 Overview of Membrane Science and Technology 1 2 Membrane Transport Theory 15 3 Membranes and Modules 89 4 Concentration Polarization 161 5 Reverse Osmosis 191 6 Ultrafiltration 237 7 Microfiltration 275 8 Gas Separation 301 9 Pervaporation 355 10 Ion Exchange Membrane Processes Electrodialysis 393 11 Carrier Facilitated Transport 425 12 Medical Applications of Membranes 465 13 Other Membrane Processes 491 Appendix 523 Index 535

Advances in Membrane Technologies for Water Treatment Angelo Basile, Alfredo Cassano, Navin Kumar Rastogi, 2015-02-28 Advances in Membrane Technologies for Water Treatment Materials Processes and Applications provides a detailed overview of advanced water treatment methods involving membranes which are increasingly seen as effective replacements for a range of conventional water treatment methods The

text begins with reviews of novel membrane materials and advances in membrane operations then examines the processes involved with improving membrane performance Final chapters cover the application of membrane technologies for use in water treatment with detailed discussions on municipal wastewater and reuse in the textile and paper industries Provides a detailed overview of advanced water treatment methods involving membranes Coverage includes advancements in membrane materials improvement in membrane performance and their applications in water treatment Discusses the use of membrane technologies in the production of drinking water desalination wastewater treatment and recovery

Advanced Membrane Science and Technology for Sustainable Energy and Environmental Applications Angelo Basile, Suzana Pereira Nunes, 2011-08-24 Membrane materials allow for the selective separation of gas and vapour and for ion transport Materials research and development continues to drive improvements in the design manufacture and integration of membrane technologies as critical components in both sustainable energy and clean industry applications Membrane utilisation offers process simplification and intensification in industry providing low cost and efficient and reliable operation and contributing towards emissions reductions and energy security Advanced membrane science and technology for sustainable energy and environmental applications presents a comprehensive review of membrane utilisation and integration within energy and environmental industries Part one introduces the topic of membrane science and engineering from the fundamentals of membrane processes and separation to membrane characterization and economic analysis Part two focuses on membrane utilisation for carbon dioxide CO₂ capture in coal and gas power plants including pre and post combustion and oxygen transport technologies Part three reviews membranes for the petrochemical industry with chapters covering hydrocarbon fuel natural gas and synthesis gas processing as well as advanced biofuels production Part four covers membranes for alternative energy applications and energy storage such as membrane technology for redox and lithium batteries fuel cells and hydrogen production Finally part five discusses membranes utilisation in industrial and environmental applications including microfiltration ultrafiltration and forward osmosis as well as water wastewater and nuclear power applications With its distinguished editors and team of expert contributors Advanced membrane science and technology for sustainable energy and environmental applications is an essential reference for membrane and materials engineers and manufacturers as well as researchers and academics interested in this field Presents a comprehensive review of membrane science and technology focusing on developments and applications in sustainable energy and clean industry Discusses the fundamentals of membrane processes and separation and membrane characterization and economic analysis Addresses the key issues of membrane utilisation in coal and gas power plants and the petrochemical industry the use of membranes for alternative energy applications and membrane utilisation in industrial and environmental applications

Applications of Environmental Biotechnology for Global Sustainability Dr. Korla Swapnavahini, Dr. P. Mahalakshmi, Dr. S. Carmel Punitha, Dr. D. Jayarajan, and Dr. Sunanda Shashikant Aswale, 2023-02-03 Editors Dr Korla Swapnavahini Dr P Mahalakshmi

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Treatise on Water Science, 2010-09-01 Water quality and management are of great significance globally as the demand for clean potable water far exceeds the availability Water science research brings together the natural and applied sciences engineering chemistry law and policy and economics and the Treatise on Water Science seeks to unite these areas through contributions from a global team of author experts The 4 volume set examines topics in depth with an emphasis on innovative research and technologies for those working in applied areas Published in partnership with and endorsed by the International Water Association IWA demonstrating the authority of the content Editor in Chief Peter Wilderer a Stockholm Water Prize recipient has assembled a world class team of volume editors and contributing authors Topics related to water resource management water quality and supply and handling of wastewater are treated in depth

Membrane Technology Enhancement for Environmental Protection and Sustainable Industrial Growth Zhien Zhang, Wenxiang Zhang, Mohamed Mehdi Chehimi, 2020-12-14 This book presents a detailed discussion of the fundamentals and practical applications of membrane technology enhancement in a range of industrial processes energy recovery and resource recycling To date most books on the applications of membrane technology have mainly focused on gas pollution removal or industrial wastewater treatment In contrast the enhancement of various membrane processes in the areas of energy and the environment has remained largely overlooked This book highlights recent works and industrial products using membrane technology while also discussing experiments and modeling studies on the membrane enhancement process

Novel Technologies in Food Science Navnidhi Chhikara, Anil Panghal, Gaurav Chaudhary, 2023-02-01 NOVEL TECHNOLOGIES IN FOOD SCIENCE Presenting cutting edge information on new and emerging food engineering processes Novel Technologies in Food Science the newest volume in the ground breaking new series Bioprocessing in Food Science is an essential reference on the modelling quality safety and technologies associated with food processing operations today Novel Technologies in Food Science the latest volume in the series Bioprocessing in Food Science is based on the novel technologies in usage and requirements for handling processing storage and packaging of food Novel bioprocessing technologies are gaining more interest among researchers and industries due to the minimal impact on product quality in comparison to conventional methods These techniques are also superior in terms of energy time saving and extended shelf life and thus can replace the conventional technologies partially or completely Practical application of these technologies by

the food industry however is limited due to higher costs lack of knowledge in food manufacturers for the implementation of technologies and validation systems An in depth discussion on consumer needs and rights industry responsibilities and future prospectus of novel technologies in food science are covered in this volume The main objective of this book is to disseminate knowledge about the recent technologies developed in the field of food science to students researchers and industry people This will enable them to make crucial decisions regarding the adoption implementation economics and constraints of the different technologies Different technologies like ultrasonication pulse electric field high pressure processing magnetization ohmic heating and irradiation are discussed with their application in food product manufacturing packaging food safety and quality assurance Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library

Membrane Contactor Technology Mohammad Younas, Mashallah Rezakazemi, 2022-04-18 An eye opening exploration of membrane contactors from a group of industry leaders In Membrane Contactor Technology Water Treatment Food Processing Gas Separation and Carbon Capture an expert team of researchers delivers an up to date and insightful explanation of membrane contactor technology including transport phenomena design aspects and diverse process applications The book also includes explorations of membrane synthesis process and module design as well as rarely discussed process modeling and simulation techniques The authors discuss the technical and economic aspects of this increasingly important technology and examine the geometry flow energy and mass transport and design aspects of membrane contactor modules They also cover a wide range of application opportunities for this technology from the materials sciences to process engineering Membrane Contactor Technology also includes A thorough introduction to the membrane contactor extraction process including dispersion free membrane extraction processes and supported liquid membrane processes Comprehensive explorations of membrane transport theory including discussions of diffusional mass and heat transfer modeling as well as numerical modeling In depth examinations of module configuration and geometry including design and flow configuration Practical discussions of modes of operation including membrane distillation osmotic evaporation and forward osmosis Perfect for process engineers biotechnologists water chemists and membrane scientists Membrane Contactor Technology also belongs in the libraries of chemical engineers polymer chemists and chemists working in the environmental industry

Chemical Process Retrofitting and Revamping Gade Pandu Rangaiah, 2016-03-07 The proposed book will be divided into three parts The chapters in Part I provide an overview of certain aspect of process retrofitting The focus of Part II is on computational techniques for solving process retrofit problems Finally Part III addresses retrofit applications from diverse process industries Some chapters in the book are contributed by practitioners whereas others are from academia Hence the book includes both new developments from research and also practical considerations Many chapters include examples with realistic data All these feature make the book useful to industrial engineers researchers and students

Pollution Control Technologies Swatantra P. Singh, Karthik Rathinam, Tarun Gupta, Avinash

Kumar Agarwal,2021-06-17 p This monograph is based on pollution control technologies available to deal with water and air pollution It includes removal of variety of pollutants including arsenic chromium uranium pesticides and arsenic from water using adsorption technique In addition this book deals with the sampling and removal of microplastics using various techniques The contents also focus on the role of membrane technology in water and wastewater treatment and particulate matter air pollution and its control techniques This volume will be a useful guide for researchers academics and scientists

Membrane Technology for Sustainability Rizwan Nasir,Danial Qadir,Hafiz Abdul Mannan,2025-09-30 This book is a comprehensive assessment of the pivotal role that membrane technology plays in addressing ongoing environmental and sustainability challenges It covers various aspects of membrane technology with a focus on gas separation and water treatment membranes and explains their principles design and applications Readers interested in sustainable engineering will learn about membrane materials fabrication techniques performance optimization and system integration along with a holistic perspective on the capabilities and limitations of membranes This book presents real world case studies and success stories highlighting the practical implementation of membrane technologies in various industries Features Explains the use of membrane technology and its transformative potential for a greener and more resilient environment Discusses membrane technology and its applications in gas and water treatment Includes case studies that illustrate the performance of membrane processes in different applications with regard to sustainability Provides insights into the challenges and opportunities of using membrane technology to improve gas and water treatment Includes information on new membrane materials processes applications and future trends This book is a great reference for researchers and graduate students in environmental engineering water engineering and chemical engineering It is also an excellent resource for environmental engineers and professionals in the water and gas industry interested in sustainability

Purification of Biotechnological Products Adalberto Pessoa Jr,Beatriz Vahan Kilikian,Paul Long,2024-05-23 This outstanding text focuses on providing professionals and students working in the pharmaceutical and biotechnology field with the background necessary for developing of a product or process and with the necessary rigor required by federal regulatory agencies in the pharmaceutical industry The material will enable teachers lecturers and professors in biotechnology to prepare courses on basic concepts and applications for the purification of biotechnological products of industrial interest These can be applied in practice for example with projects on purification development on an industrial scale or useful unit operations for the development of bioproducts of commercial interest Features Purification and development of new bioproducts and improvement of those being produced Provides a background and concepts on the purification of biomolecules and with an industrial perspective It allows professionals to understand the entire process of developing a biopharmaceutical or bio food from bench to industry in biotechnology one of the fastest growing sectors of the economy It promotes the dissemination of information in a didactic way which is of paramount importance for interdisciplinary fields It enables the reader to follow

step by step stages of the development of a new biopharmaceutical and allows the optimization of existing processes

Chitosan Based Materials and its Applications Sergio Paulo Campana-Filho,Luiz Antonio de Almeida Pinto,2017-06-07 This volume presents 10 reviews contributed by eminent researchers around the world on chitosan based materials The introductory chapters present information on general characteristics of chitosan and various types of materials which are based on it such as nanofibers nanoparticles nanocapsules and other chemically modified chitosans This is followed by an explanation of chitosan characterization and extraction techniques Concluding chapters describe the applications of chitosan products in water treatment drug delivery edible films and pervaporation membranes Readers will therefore gain an understanding about chitosan and materials derived from this polymer and their practical applications The volume serves as a simple reference for chemical engineering students and professionals interested in the basic and applied chemistry of chitosan and chitosan derived products

Encyclopedia of Renewable Energy, Sustainability and the Environment ,2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy

Food Processing Stephanie Clark,Stephanie Jung,Buddhi Lamsal,2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects

of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

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Membrane and Desalination Technologies Lawrence K. Wang, Jiaping Paul Chen, Yung-Tse Hung, Nazih K. Shammash, 2010-12-01 In this essential new volume Volume 13 Membrane and Desalination Technologies a panel of expert researchers provide a wealth of information on membrane and desalination technologies An advanced chemical and environmental engineering textbook as well as a comprehensive reference book this volume is of high value to advanced graduate and undergraduate students researchers scientists and designers of water and wastewater treatment systems This is an essential part of the Handbook of Environmental Engineering series an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms gas solid and liquid Chapters adopt the series format employing methods of practical design and calculation illustrated by numerical examples including pertinent cost data whenever possible and exploring in great detail the fundamental principles of the field Volume 13 Membrane and Desalination Technologies is an essential guide for researchers highlighting the latest developments in principles of membrane technology membrane systems planning and design industrial and municipal waste treatments desalination requirements wastewater reclamation biofiltration and more

Inorganic Membranes for Energy and Environmental Applications Arun C. Bose, 2008-10-08 Research interest in inorganic membrane materials and processes has significantly increased in recent years due to novel potentially low cost energy and fuel production applications This book documents the recent progress in membrane science especially in advanced materials and novel reaction and separation concepts The book classifies membranes based on the mechanism of operation i.e. size exclusion filtration solution diffusion and mixed ion electron conduction of the permeate streams

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