



Separation Purification Technology

Separation And Purification Technology

Daniela Niemeyer



Separation And Purification Technology:

Separation and Purification Technology Norman Li, 1992-07-21 This volume addresses recent developments and approaches in selected application areas of separation and purification technology presenting a useful blend of current progress in theory applications process technology and related economics Exploring the continual and rapid evolution of this field Separation and Purification Technology discusses mature established technologies as well as new cutting edge techniques treats the application of membrane based separations in biotechnology commercial applications of emulsion liquid membranes and economic evaluation of membrane technology displays strong environmental connotations examining liquid waste concentration by electrodialysis and the application of immobilized bioadsorbents for the recovery of dissolved metals describes novel applications of complexation phenomena considers new fundamental work in mass transfer in pulsed sieveplate extraction columns and more Providing more than 200 helpful tables figures and equations Separation and Purification Technology is an indispensable reference for chemical industrial and manufacturing engineers and analytical chemists and biochemists Book jacket

Handbook of Membrane Separations Anil K. Pabby, S. Ranil Wickramasinghe, Ana-Maria Sastre, 2023-12-22 The 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

Membranes Alfredo Maciel-Cerda, 2016-11-09 This book describes current advances in the research on membranes and applications in industry groundwater and desalination processes Topics range from synthesis of new polymers to preparation of membranes using new water treatments for effluents graphite membranes development of polymeric and ceramic materials for production of membranes intended to separate gases and liquids and liquid liquid phases The authors include materials used to produce catalytic membranes for polymer synthesis The book also details theoretical approaches and simulation of membrane processes and parameters and design

Hazardous Materials and Wastewater Allison A. Lewinsky, 2007 Hazardous waste is a waste with properties that make it dangerous or potentially harmful to human health or the environment Hazardous waste generally exhibits one or more of these characteristics ignitability corrosivity reactivity or toxicity The universe of hazardous wastes is large and diverse

Hazardous wastes can be liquids solids contained gases or sludges They can be the by products of manufacturing processes or simply discarded commercial products like cleaning fluids or pesticides One major type is radioactive waste This book brings together the latest research in this diverse field

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Bioprocess Engineering Pau Loke Show, Chien Wei Ooi, Tau Chuan Ling, 2019-06-13 Bioprocess Engineering Downstream Processing is the first book to present the principles of bioprocess engineering focusing on downstream bioprocessing It aims to provide the latest bioprocess technology and explain process analysis from an engineering point of view using worked examples related to biological systems This book introduces the commonly used technologies for downstream processing of biobased products The covered topics include centrifugation filtration membrane separation reverse osmosis chromatography biosorption liquid liquid separation and drying The basic principles and mechanism of separation are covered in each of the topics wherein the engineering concept and design are emphasized This book is aimed at bioprocess engineers and professionals who wish to perform downstream processing for their feedstock as well as students

Wastewater Engineering: Advanced Wastewater Treatment Systems Hamidi Abdul Aziz, Amin Mojiri, 2014-04-01 As the global population grows and many developing countries modernize the importance of water supply and wastewater treatment becomes a much greater factor in the welfare of nations Clearly in today s world the competition for water resources coupled with the unfortunate commingling of wastewater discharges with freshwater supplies creates additional pressure on treatment systems Recently researchers focus on wastewater treatment by difference methods with minimal cost and maximum efficiency This volume of the Wastewater Engineering Advanced Wastewater Treatment Systems is a selection of topics related to physical chemical and biological processes with an emphasis on their industrial applications It gives an overview of various aspects in wastewater treatments methods including topics such as biological bioremediation electrochemical membrane and physical chemical applications Experts in the area of environmental sciences from diverse institutions worldwide have contributed to this book which should prove to be useful to students teachers and researchers in

the disciplines of wastewater engineering chemical engineering environmental engineering and biotechnology We gratefully acknowledge the cooperation and support of all the contributing authors **Green Solvents, Volume 6** ,2014-04-22 The shift towards being as environmentally friendly as possible has resulted in the need for this important volume on the role of ionic liquids in green chemistry Edited by Peter Wasserscheid one of the pioneers of ionic liquid research and Annegret Stark this is an essential resource for anyone wishing to gain an understanding of the world of green chemistry as well as for chemists environmental agencies and chemical engineers **Algal Bioreactors** Eduardo Jacob-Lopes,Leila Queiroz Zepka,Mariany Costa Depira,2024-11-21 Algal Bioreactors Science Engineering and Technology of Downstream Processes Volume Two is part of a comprehensive two volume set that provides the knowledge needed to design develop and operate algal bioreactors for the production of renewable resources Supported by critical parameters and properties mathematical models and calculations methods and practical real world case studies readers will find everything they need to know on the upstream and downstream processes of algal bioreactors for renewable resource production Bringing together renowned experts in microalgal biotechnology this book will help researchers scientists and engineers from academia and industry overcome barriers and advance the production of renewable resources and renewable energy from algae Students will also find invaluable explanations of the fundamentals and key principles of algal bioreactors making it an accessible read for students of engineering microbiology biochemistry biotechnology and environmental sciences Presents the physical biological environmental and economic parameters of downstream processes in the operation and development of algal bioreactors to produce renewable resources Explains the main configurations and designs of algal bioreactors presenting recent innovations and future trends Integrates the scientific engineering technology environmental and economic aspects of producing renewable resources and other valuable bioproducts using algal bioreactors Provides real world case studies at various scales to demonstrate the practical implementation of the various technologies and methods discussed

Electrodeionization P. Senthil Kumar,B. Senthil Rathi,2024-01-22 Electrodeionization Fundamentals Methods and Applications explains the latest developments in research on ion exchange membranes wastewater zero discharge based on ion exchange membranes membrane capacitive deionization membrane free and resin wafer electrodeionization cells Electrodeionization is a fully advanced ion exchange method that combines ion exchange electrodialysis and elusion procedures for metal particle removal from wastewater Gaining popularity due to the lack of chemicals required for resin regeneration and the production of high purity water this cost effective method efficiently assists in ion removal and recovery The technology is suitable for a wide range of applications including desalination water and wastewater treatment extraction of high value products concentrating and purifying operations and energy savings and as such will be of interest to researchers and students working on these areas as well as those in chemicals manufacture energy generation and storage Covers the continuous electrodeionization working principle Includes multiple applications of electrodeionization Provides

updates on resin wafer membrane free and electrostatically shielded electrodeionization **Higher Alcohols Production Platforms** Hamid Amiri, Meisam Tabatabaei, Abdul-Sattar Nizami, 2023-09-27 Higher Alcohols Production Platforms From Strain Development to Process Design comprehensively covers the production of higher alcohols from the fundamentals to the latest research Bringing together experts from industry and academia the book sheds light on the practical aspects of higher alcohol production and offers a roadmap for researchers to follow In addition to the fundamentals of higher alcohol production readers are presented with detailed information on up and downstream processes including microbial processes and the various production pathways available A discussion of metabolic pathways has a dedicated chapter as do C2 C3 C8 and C4 sugar fermentation platforms A lifecycle assessment is also presented addressing the energy environmental social and economic factors in the sustainability of higher alcohol production Readers will find this to be a unique and comprehensive reference on the production of higher alcohols that will be of interest to students researchers and industry professionals involved in bioenergy and renewable energy and more Provides comprehensive coverage of the energy environmental and economic aspects of higher alcohols biofuels Presents a rational basis for assessing alcoholic products that can be used as a roadmap for their further developments Analyzes and synthesizes the latest research and developments on the production of higher alcohols as biofuels for audiences in academia and industry Removal of Refractory Pollutants from Wastewater Treatment Plants Maulin P. Shah, 2021-10-07 This book discusses new and innovative trends and techniques in the removal of toxic and or refractory pollutants through various environmental biotechnological processes from wastewater both at the laboratory and industrial scale It focuses primarily on environmentally friendly technologies which respect the principles of sustainable development including the advanced trends in remediation through an approach of environmental biotechnological processes from either industrial or sewage wastewater Features Examines the fate and occurrence of refractory pollutants in wastewater treatment plants WWTPs and the potential approaches for their removal Highlights advanced remediation procedures involving various microbiological and biochemical processes Assesses and compares the potential application of numerous existing treatment techniques and introduces new emerging technologies Removal of Refractory Pollutants from Wastewater Treatment Plants is suitable for practicing engineers researchers water utility managers and students who seek an excellent introduction and basic knowledge in the principles of environmental bioremediation technologies *Proceedings of 4th International Conference on Electrochemistry 2018* Conference Series, June 11 12 2018 Rome Italy Key Topics Theoretical and Computational Electrochemistry Physical and Analytical Electrochemistry Photoelectrochemistry Electrochemical Energy Sensors Organic and Bioelectrochemistry Batteries and Energy Storage Corrosion Science and Technology Electronic Materials and Processing Carbon Nanostructures Dielectric Science and Materials Electrochemical Electroless Deposition Electrochemical Water Treatment Electrochemical Surface Science Electrochemical Engineering Environmental Electrochemistry Applied Electrochemistry Inorganic Electrochemistry

Market Surveillance of Electrochemistry Membranes and Membrane Technologies II Stanislav Kolisnychenko,2020-04-08
Aggregated Book **Trihalomethanes—Advances in Research and Application: 2013 Edition** ,2013-05-01

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Polymer Nanocomposite Membranes in Water Treatment and Desalination Md Rezaur Rahman,Muhammad Khusairy Bin Bakri,2025-06-15 Over the past few years significant research has been conducted into the development of polymeric nanocomposite membranes to increase environmental sustainability and to demonstrate their benefits for commercial water treatment and desalination applications Polymer Nanocomposite Membranes for Water Treatment and Desalination Recent Developments Future Opportunities and Sustainable Applications presents the latest research findings in this important field The book summarizes current advances in the production characterization and applications of these membranes for water treatment and desalination Bio composite alterations functional group additions and nanomaterial assemblies are also examined in depth The current breakthroughs in reverse osmosis oil removal heavy metals removal dye removal photocatalytic degradation of organic contaminants and pesticide removal from wastewater are also discussed Additionally the book also highlights bacteria removal by polymeric nanocomposite membranes as well as the major benefits and drawbacks of various adsorbent materials Special emphasis is

also placed on the adsorption mechanism which includes chemisorption and physisorption The book will be a valuable reference source for academic and industrial researchers as well as early career researchers who are working in the research and development of polymer nanocomposite membranes for water treatment and desalination Covers production characterization and applications of polymeric membranes for water treatment and desalination Discusses fundamentals materials and methods chemistry synthesis procedures and membrane preparation methods Methods of scaling up production from lab to industry are also covered in detail Focus on sustainability

Current Trends and Future Developments on (Bio-) Membranes Angelo Basile, Evangelos P. Favvas, 2018-07-18 Current Trends and Future Developments on Bio Membranes Carbon Dioxide Separation Capture by Using Membranes explores the unique property of membranes to separate gases with different physical and chemical properties The book covers both polymeric and inorganic materials for CO₂ separation and explains their mechanism of action allowing for the development and most appropriate and efficient processes It also lists the advantages of using membranes instead of other separation techniques i.e. their low operating costs and low energy consumption This book offers a unique opportunity for scientists working in the field of membrane technology for CO₂ separation and capture Outlines numerous membrane based technologies for CO₂ separation and capture Lists new advanced separation techniques and production processes Includes various applications modelling and the economic considerations of each process Covers advanced techniques for the separation of CO₂ in natural gas

Processing of Biomass Waste Angana Sarkar, Ulla Lassi, 2024-04-25 Processing of Biomass Waste Technological Upgradation and Advancement focuses on the exploitation of various waste management technologies and their associated process microbial chemical physical as tools to simultaneously generate value during treatment processes including degradation detoxification stabilization toxic and hazardous contaminants The book explores wastes as a veritable resource for wealth creation with particular focus on resources recoverable from diverse wastes using special intervention of biotechnological tools Other sections highlight recent technologies of waste bioprocessing in biorefinery approaches and enlighten on different approaches The book encompasses advanced and updated information as well as future directions for young researchers and scientists who are working in the field of waste management with a focus on sustainable value generation Includes cutting edge technologies in waste bioprocessing Focuses on applications of molecular biotechnological tools in waste bioprocessing Provides natural and eco friendly solutions to deal with the problem of pollution aiming value generation Details underlying mechanisms of waste bioprocessing approaches that cover microbes for the simultaneous value generation and removal of emerging contaminants Includes field studies on the application of biorefinery approach for eco restoration of contaminated sites Presents recent advances and challenges in waste bioprocessing research and applications for sustainable development

Transport Properties of Polymeric Membranes Sabu Thomas, Runcy Wilson, Anil Kumar S, Soney C. George, 2017-11-20 Transport Properties of Polymeric Membranes is an edited collection of papers that covers in

depth many of the recent technical research accomplishments in transport characteristics through polymers and their applications Using the transport through polymer membranes method leads to high separation efficiency low running costs and simple operating procedures compared to conventional separation methods This book provides grounding in fundamentals and applications to give you all the information you need on using this method This book discusses the different types of polymer their blends composites nanocomposites and their applications in the field of liquid gas and vapor transport Some topics of note include modern trends and applications of polymer nanocomposites in solvent vapor and gas transport fundamentals and measurement techniques for gas and vapor transport in polymers and transport properties of hydrogels This handpicked selection of topics and the combined expertise of contributors from global industry academia government and private research organizations make this book an outstanding reference for anyone involved in the field of polymer membranes Presents current trends in the field of transport of liquid gas and vapor through various polymeric systems Features case studies focused on industrial applications of membrane technology along with fundamentals of transport and materials Helps readers quickly look up a particular technique to learn key points capabilities and drawbacks

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Separation And Purification Technology Introduction

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