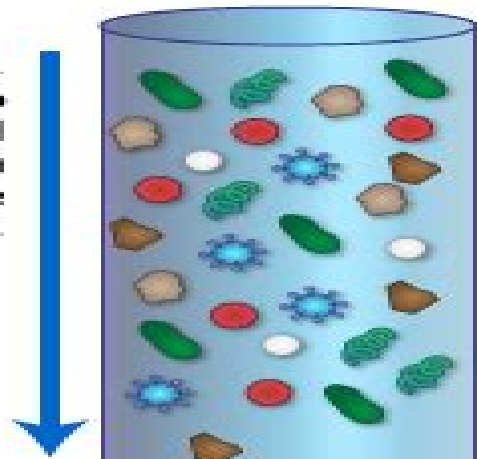


How Nanofiltration Works

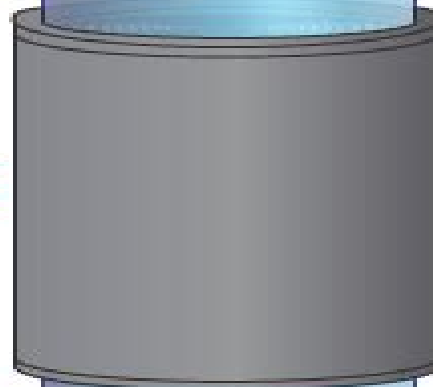
During nanofiltration, pressure is used to force contaminated source water through a semi-permeable membrane.



Contaminants

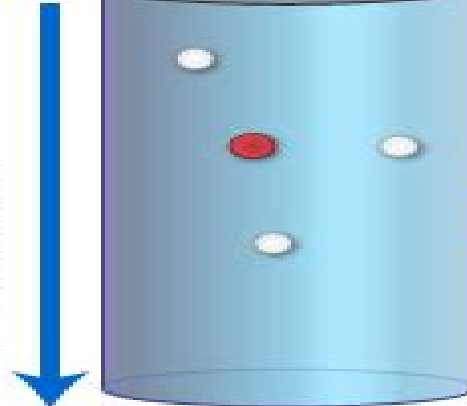
-  Bacteria
-  Colloids
-  Suspended Particles
-  Viruses
-  Proteins
-  Monovalent Ions
-  Multivalent Ions

Nanofiltration Membrane



A nanofiltration membrane is capable of removing contaminants down to 0.001 microns in size.

Nanofiltration removes nearly all bacteria and viruses, most organic matter, divalent ions and up to 90% of monovalent ions.



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Nanofiltration Principles And Applications

Angelo Basile, Catherine Charcosset



Nanofiltration Principles And Applications:

Nanofiltration, 2 Volume Set Andrea Iris Schäfer, Anthony G. Fane, 2021-08-09 An updated guide to the growing field of nanofiltration including fundamental principles important industrial applications as well as novel materials With contributions from an international panel of experts the revised second edition of Nanofiltration contains a comprehensive overview of this growing field The book covers the basic principles of nanofiltration including the design and characterizations of nanofiltration membranes The expert contributors highlight the broad ranges of industrial applications including water treatment food pulp and paper and textiles The book explores photocatalytic nanofiltration reactors organic solvent nanofiltration as well as nanofiltration in metal and acid recovery In addition information on the most recent developments in the field are examined including nanofiltration retentate treatment and renewable energy powered nanofiltration The authors also consider the future of nanofiltration materials such as carbon as well as polymer based materials This important book Explores the fast growing field of the membrane process of nanofiltration Examines the rapidly expanding industrial sector s use of membranes for water purification Covers the most important industrial applications with a strong focus on water treatment Contains a section on new membrane materials including carbon based and polymer based materials as well as information on artificial ion and water channels as biomimetic membranes Written for scientists and engineers in the fields of chemistry environment food and materials the second edition of Nanofiltration provides a comprehensive overview of the field outlines the principles of the technology explores the industrial applications and discusses new materials

Nanofiltration: Principles and Applications Anthony Gordon Fane, A. Schäfer, T. David Waite, 2004-10 Nanofiltration processes are finding wide applications in several wet industries such as water wastewater treatment water re use textile industry dairy industry food industry and the pulp and paper industries Despite this no definitive book exists which covers the principles of the techniques and their potential and actual applications Nanofiltration Principles and Applications is edited by three well known specialists from Australia and contains chapters from top international authorities The result is a comprehensive and up to date account which will be essential reading for membrane designers manufacturers and end users worldwide Hot industrial topic Best Australian Editors and international contributors The only book on the topic

Nanofiltration A Schaefer, Anthony G Fane, T David Waite, 2005 Nanofiltration processes are finding wide applications in several wet industries such as water wastewater treatment water re use textile industry dairy industry food industry and the pulp and paper industries Despite this no definitive book exists which covers the principles of the techniques and their potential and actual applications Nanofiltration Principles and Applications is edited by three well known specialists from Australia and contains chapters from top international authorities The result is a comprehensive and up to date account which will be essential reading for membrane designers manufacturers and end users worldwide Hot industrial topic Best Australian Editors and international contributors The only book on the topic

Nanofiltration for

Sustainability Abdul Mohammad, Teow Yeit Haan, Nidal Hilal, 2023-09-30 This book provides a novel exploration of the application of nanofiltration membrane technology for sustainability in various industries situated in view of recent breakthroughs and the use of reuse recycle and resource recovery approaches Moving from a comprehensive discussion of nanofiltration membrane processes to case studies and real world applications of nanofiltration technology across society both successes and potential limitations are considered Features Detailed discussion of the fundamentals of nanofiltration technology The concepts of reuse recycle and resource recovery using nanofiltration technology are explored in combination with other technologies to advance circular economy Considered across a range of industries such as textiles oil gas agriculture and pharmaceuticals Written in a thoroughly detailed manner this book is an essential guide for industry professionals interested in sustainability and working toward a circular economy Comprehensive discussions of the fundamental processes underpinning nanofiltration technology also make this book particularly appealing to students of industrial chemistry

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

Bio-Nano Filtration in Industrial Effluent Treatment Maulin P. Shah, 2023-04-27 The ever increasing number of pollutants discharged into the environment drives the search for new treatment technologies or the modification of the existing ones In this sense innovation in bio nano filtration systems seems very promising and therefore a book on the current advances and innovations on this topic is highly appropriate Bio nano filtration is a relatively new emerging technology applied to the treatment of wastewater and other toxic compounds In the

last two decades this technology has begun to emerge as an economically viable process to treat the great variety of recalcitrant pollutants discharged into the environment. Thus it is speculated that the US biofiltration market will reach over 100 million by 2020. This book aims to present how innovation in bio nano filtration can provide effective solutions to overcome the serious problem of water pollution worldwide. The removal of contaminants will be the result of the combined effects of biological oxidation adsorption and filtration processes. Features: Describes the microbial ecology of bio nano filtration. Describes the modelling of bio nano filtration. Describes the design of bio nanofillers. Science and Technology of Separation Membranes Tadashi Uragami, 2017-02-10. Offers a comprehensive overview of membrane science and technology from a single source. Written by a renowned author with more than 40 years experience in membrane science and technology and polymer science. Covers all major current applications of membrane technology in two definitive volumes. Includes academic analyses, applications and practical problems for each existing membrane technology. Includes novel applications such as membrane reactors, hybrid systems and optical resolution as well as membrane fuel cells. **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 Processes in Biotechnology and Pharmaceuticals** Catherine Charcosset, 2012-03-14. Chapter 1 Principles on membrane and membrane processes. Chapter 2 Ultrafiltration. Chapter 3 Microfiltration. Chapter 4 Virus Filtration. Chapter 5 Membrane chromatography. Chapter 6 Membranes for the Preparation of Emulsions and Particles. Chapter 7 Other Membrane Processes. Chapter 8 Some Perspectives. **Separation and Purification Technologies in Biorefineries** Shri Ramaswamy, Hua-Jiang Huang, Bandaru V. Ramarao, 2013-02-04. Separation and purification processes play a critical role in biorefineries and their optimal selection, design and operation to maximise product yields and improve overall process efficiency. Separations and purifications are necessary for upstream processes as well as in maximising and improving product recovery in downstream processes. These processes account for a significant fraction of the total capital and operating costs and also are highly energy intensive. Consequently, a better understanding of separation and purification processes, current and possible alternative and novel advanced methods is essential for achieving the overall technological, economic feasibility and commercial success of sustainable biorefineries. This book presents a comprehensive overview focused specifically on the present state, future challenges and opportunities for separation and purification methods and technologies in biorefineries. Topics covered include: Equilibrium Separations, Distillation, liquid-liquid extraction and supercritical fluid extraction, Affinity Based Separations, Adsorption, ion exchange and simulated moving bed technologies, Membrane Based Separations, Microfiltration, ultrafiltration and diafiltration, nanofiltration, membrane pervaporation and

membrane distillation Solid liquid Separations Conventional filtration and solid liquid extraction Hybrid Integrated Reaction Separation Systems Membrane bioreactors extractive fermentation reactive distillation and reactive absorption For each of these processes the fundamental principles and design aspects are presented followed by a detailed discussion and specific examples of applications in biorefineries Each chapter also considers the market needs industrial challenges future opportunities and economic importance of the separation and purification methods The book concludes with a series of detailed case studies including cellulosic bioethanol production extraction of algae oil from microalgae and production of biopolymers Separation and Purification Technologies in Biorefineries is an essential resource for scientists and engineers as well as researchers and academics working in the broader conventional and emerging bio based products industry including biomaterials biochemicals biofuels and bioenergy

Waste Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-12-06 As the world's population continues to grow and economic conditions continue to improve more solid and liquid waste is being generated by society Improper disposal methods can not only lead to harmful environmental impacts but can also negatively affect human health To prevent further harm to the world's ecosystems there is a dire need for sustainable waste management practices that will safeguard the environment for future generations Waste Management Concepts Methodologies Tools and Applications is a vital reference source that examines the management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air water and soil pollution Highlighting a range of topics such as contaminant removal landfill treatment and recycling this multi volume book is ideally designed for environmental engineers waste authorities solid waste management companies landfill operators legislators environmentalists policymakers government officials academicians researchers and students

Application of Nanotechnology in Mining Processes Elvis Fosso-Kankeu, Martin Mkandawire, Bhekile B. Mamba, 2022-01-31 b Application of Nanotechnology in Mining Processes Nanotechnology has revolutionized processes in many industries but its application in the mining industry has not been widely discussed This unique book provides an overview of the successful implementation of nanotechnology in some of the key environmental and beneficiation mining processes This book explores extensively the potential of nanotechnology to revolutionize the mining industry which has been relying for a very long on processes with limited efficiencies The nine specialized chapters focus on applying nanoflotation to improve mineral processing effective extraction of metals from leachates or pregnant solutions using nanoscale supramolecular hosts and development of nano adsorbents or nano based strategies for the remediation or valorization of AMD The application of nanotechnology in mining has so far received little attention from the industry and researchers and this groundbreaking book features critical issues so far under reported in the literature Application of nanotechnology in mineral processing for the enhancement of froth flotation Development of smart nanomaterials and application for the treatment of acid mine drainage Recovery of values from pregnant solutions

using nanoadsorbents Valorization of AMD through formation of multipurpose nanoproducts Audience Industrial interest will be from mining plant operators environmental managers water treatment plants managers and operators Researchers in nanotechnology environmental science mining and metallurgy engineering will find the book valuable as will government entities such as regulatory bodies officers and environmentalists

Desalination Jane Kucera, 2014-02-04 This is the first volume to cover desalination in such depth and detail offering engineers technicians and operators full coverage of the applications economics and expectations of what will certainly become one of the most important water related processes on the planet Covering thermal processes and membrane processes this is the only volume any engineer working in desalination must have covering both practical and theoretical issues encountered on a daily basis Certain to be an important contribution to the water management community

Integrated Membrane Systems and Processes Angelo Basile, Catherine Charcosset, 2016-01-26 The book examines the possibility of integrating different membrane unit operations microfiltration ultrafiltration nanofiltration reverse osmosis electrodialysis and gas separation in the same industrial cycle or in combination with conventional separation systems It gives careful analysis of the technical aspects and the possible fields of industrial development The book reviews many original solutions in water desalination agro food productions and wastewater treatments highlighting the advantages achievable in terms of product quality compactness rationalization and optimization of productive cycles reduction of environmental impact and energy saving Also included are examples of membrane reactors and their integration with a fuel cell polymeric membranes in the integrated gasification combined cycle power plants integrating a membrane reformer into a solar system and potential application of membrane integrated systems in the fusion reactor fuel cycle With detailed analysis and broad coverage the book is divided into two sections Bio applications and Inorganic Applications

Metrology and Standardization for Nanotechnology Elisabeth Mansfield, Debra L. Kaiser, Daisuke Fujita, Marcel Van de Voorde, 2017-01-20 For the promotion of global trading and the reduction of potential risks the role of international standardization of nanotechnologies has become more and more important This book gives an overview of the current status of nanotechnology including the importance of metrology and characterization at the nanoscale international standardization of nanotechnology and industrial innovation of nano enabled products First the field of nanometrology nanomaterial standardization and nanomaterial innovation is introduced Second major concepts in analytical measurements are given in order to provide a basis for the reliable and reproducible characterization of nanomaterials The role of standards organizations are presented and finally an overview of risk management and the commercial impact of metrology and standardization for industrial innovations

Handbook of Textile Effluent Remediation Mohd Yusuf, 2018-07-11 Nowadays textile units utilize a number of dyes chemicals reagents and solvents to impart the desired quality to fabrics and generate a substantial quantity of effluents contaminants which cause severe environmental problems if disposed of without proper treatment In view of several surveys carried out through research papers books

technical articles and general reports published in high reputed academic societies Handbook of Textile Effluent Remediation provides a detailed narration of the acceptable methods of treating textile wastewater such as active ozonation membrane filtration and adsorption The book discusses emerging and suitable treatment systems that are viable efficient and economical In this context it provides an array of several traditional as well as advanced treatment practices for textile effluents It covers research oriented descriptions of textile wastewater treatment that can be adopted by scientific communities academicians and undergraduate and postgraduate students of industrial engineering materials science and engineering physics and chemistry It offers several interesting methodologies and aspects of current dimensional research through user friendly content tables and figures and provides up to date literature on important and useful information for textile effluents their impact on the environment and advanced remediation processes Needless to say this book is of immense use to global researchers academicians and consultants engaged in various streams of wastewater treatment science

Application, Purification, and Recovery of Ionic Liquids Olga Kuzmina, Jason Hallett, 2016-03-01 Application Purification and Recovery of Ionic Liquids provides a comprehensive overview of the usage of ionic liquids IL The book gives a description of the methods used for recovery and purification of ILs a summary of the economic aspects of using ILs and a review on the toxicity data of ILs It is written for researchers scientists and engineers working with ILs their properties and usages The book not only describes the chemical aspects but the economic and environmental aspects as well making it of particular interest to professionals applying this technology Chapters written by scientists in academia and researchers in industry ensuring coverage of both the scientific fundamentals and industrial applications A single source of information for a broad collection of recovery and purification methods Provides information on using ionic liquids as green solvents Includes economic aspects of recovery and reuse of ionic liquids

Nanotechnology for Sustainable Water Resources Ajay Kumar Mishra, Chaudhery Mustansar Hussain, 2018-02-05 In this book we have summarized recent progresses due to novel nanomaterials for sustainable water resources Book provides a summary of the state of the art knowledge to scientists engineers and policy makers about recent developments due to nanotechnology for sustainable water resources arena The advances in sustainable water resources technologies in the context of modern society's interests will be considered preferably which allow to identify grand challenges and directions for future research The book contributors have been selected from all over the world and the essential functions of the nanotechnologies have presented rather than their anticipated applications Moreover up to date knowledge on economy toxicity and regulation related to nanotechnology are presented in detail In the end role of nanotechnology for green and sustainable future has also been briefly debated

Nanotechnology Applications for Clean Water Anita Street, Richard Sustich, Jeremiah Duncan, Nora Savage, 2014-05-15 Nanotechnology is already having a dramatic impact on improving water quality and the second edition of Nanotechnology Applications for Clean Water highlights both the challenges and the opportunities for nanotechnology to

positively influence this area of environmental protection This book presents detailed information on cutting edge technologies current research and trends that may impact the success and uptake of the applications Recent advances show that many of the current problems with water quality can be addressed using nanosorbents nanocatalysts bioactive nanoparticles nanostructured catalytic membranes and nanoparticle enhanced filtration The book describes these technologies in detail and demonstrates how they can provide clean drinking water in both large scale water treatment plants and in point of use systems In addition the book addresses the societal factors that may affect widespread acceptance of the applications Sections are also featured on carbon nanotube arrays and graphene based sensors for contaminant sensing nanostructured membranes for water purification and multifunctional materials in carbon microspheres for the remediation of chlorinated hydrocarbons Addresses both the technological aspects of delivering clean water supplies and the societal implications that affect take up Details how the technologies are applied in large scale water treatment plants and in point of use systems Highlights challenges and the opportunities for nanotechnology to positively influence this area of environmental protection Current Developments in Bioengineering and Biotechnology Ashok Pandey, Sanjay P. Govindwar, Mayur B. Kurade, Byong-Hun Jeon, 2023-02-22 Advances in Eco friendly and Sustainable Technologies for the Treatment of Textile Wastewater delivers a comprehensive overview of the advancements in a variety of treatment approaches with a major emphasis on bioremediation for the removal and degradation of textile dyes This book summarizes the latest advancements in textile dyes effluent treatment technologies and evaluates the major physico chemical and biological processes that are most popular among textile industrial wastewater treatment plants The book examines recent advanced treatment options including photocatalysis with the aid of nanotechnology as well as advanced oxidation processes with an emphasis on bioremediation methods Introduces the global scenario of textile pollution including country wide industrial contribution severity and ecological consequences Covers both conventional treatment technologies for the removal of synthetic dyes such as adsorption and coagulation along with several novel approaches of advanced treatment options including photocatalysis and advanced oxidation processes Provides an in depth analysis of bioremedial approaches including the application of bacterial fungal yeast microalgae and plants and enzymatic biotransformation for the degradative metabolism of dyes Includes genetic engineering metagenomics microbial fuel cells and biofilm based immobilization techniques and bioreactors

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