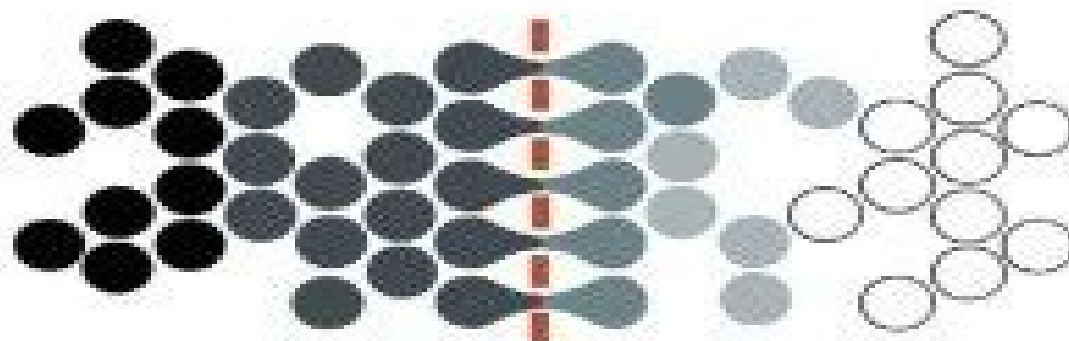




Membrane Science and Technology Series, 10



NANO AND MICRO ENGINEERED MEMBRANE TECHNOLOGY

C.J.M. van Rijn

Nano And Micro Engineered Membrane Technology

James Goh



Nano And Micro Engineered Membrane Technology:

Nano and Micro Engineered Membrane Technology CJM van Rijn, 2004-02-05 Nano and Micro Engineered Membrane Technology is about Nano and micro engineered membrane technology an emerging new technological area in membrane technology Potential applications cover a broad spectrum of science such as micro and nano filtration gas separation optics and nanophotonics catalysis microbiology controlled drug delivery nanopatterning micro contact printing atomisation cross flow emulsification etc A brief overview of filtration membranes and pore structures is presented in chapter 1 and in the subsequent chapter 2 an overview is presented of conventional micro perforation methods like laser drilling electroforming precision etching etc With micro engineering techniques chapter 3 originating from the semiconductor industry it is relatively easy to downscale and form submicron pores down to 100 nm using photolithographic methods with e g contact masks and wafer steppers In chapter 4 some elementary fluid mechanics related to fluid flow in conduits and single and multiple orifices is presented covering analytical methods as well as computational fluid dynamics Much effort has been put in strength and maximum pressure load analysis chapter 5 of perforated and unperforated membranes New analytical expressions were obtained that were verified by a number of computer simulations and many experiments A separate chapter chapter 6 has been devoted to the pioneering work of manufacturing polymeric perforated membranes because of its potential future economical impact Large scale microfiltration applications on e g skim milk and lager beer are presented in chapter 7 whereas in chapter 8 a micro scale Lab on a Chip microfiltration fractionation demonstrator is discussed Nanotechnology and nano engineered membranes is the fascinating topic of chapter 9 with typical examples as nanopatterning nanophotonics and nanomembrane technology This book closes with novel pioneering applications on atomization chapter 10 for deep pulmonary inhale and cross flow emulsification chapter 11 for the manufacturing of e g functional foods and nano micro emulsions Overview on the implementation of nano and micro engineering techniques in membrane science which is an upcoming new cross road technology Demonstration of feasibility with respect to micro and nano filtration gas separation photonic structures catalysis microbiology controlled drug delivery nanopatterning micro contact printing atomisation and emulsification techniques Informative introductions with rules of thumb for fluid flow in micro channels pressure strength of thin supported perforated and unperforated membranes silicon micro machining techniques membrane filtration technology Rayleigh breakup and cross flow emulsification

Nano and Micro Engineered Membrane Technology Cornelis Johannes Maria Rijn, 2002 *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 The 15th International Conference on Biomedical Engineering

James Goh,2013-11-18 This volume presents the processing of the 15th ICMBE held from 4th to 7th December 2013 Singapore Biomedical engineering is applied in most aspects of our healthcare ecosystem From electronic health records to diagnostic tools to therapeutic rehabilitative and regenerative treatments the work of biomedical engineers is evident Biomedical engineers work at the intersection of engineering life sciences and healthcare The engineers would use principles from applied science including mechanical electrical chemical and computer engineering together with physical sciences including physics chemistry and mathematics to apply them to biology and medicine Applying such concepts to the human body is very much the same concepts that go into building and programming a machine The goal is to better understand replace or fix a target system to ultimately improve the quality of healthcare With this understanding the conference proceedings offer a single platform for individuals and organizations working in the biomedical engineering related field to gather and network with each other in so doing create the catalyst for future development of biomedical engineering in Asia

Membrane Technologies and Applications Kaustubha Mohanty,Mihir K. Purkait,2011-12-19 Compiling recent advances in membrane separations technology this highly relevant book introduces cost effective solutions for separation problems in a wide range of industries It discusses membrane use in water and wastewater treatment food and dairy industry and fuel cell applications It describes the role of membrane technologies in resource recovery pollution prevention and energy production as well as environmental monitoring and quality control A concise resource for emerging technologies this book provides the tools to implement effective production processes improve environmental protection and public health and explore new opportunities for the industry Nanotechnology and Human Health Ineke Malsch,Claude Emond,2016-04-19 Addressing medium and long term expectations for human health this book reviews current scientific and technical developments in nanotechnology for biomedical agrofood and environmental applications This collection of perspectives on the ethical legal and societal implications of bionanotechnology provides unique insight into contemporary te

Bionanotechnology David E. Reisner,2008-07-30 As the impact and importance of nanotechnology continues to grow nanomedicine and biotechnology have become areas of increased development Drug delivery by nanoparticles and nanocoatings for medical devices are among the many new techniques on the horizon Years from now we will laugh at the approaches to treating disease we currently consider Micro/Nano Science and Engineering Y. Al-Douri,2014-04-17

Selected peer reviewed papers from the Joint International Conference on Nanoscience Engineering and Management BOND21 August 19 21 2013 Penang Malaysia **Microchemical Engineering in Practice** Thomas Dietrich,2011-11-18 Microchemical Engineering in Practice provides the information chemists and engineers need to evaluate the use of microreactors covering the technical operational and economic considerations for various applications It explains the systems needed to use microreactors in production and presents examples of microreactor use in different chemistries including larger scale production processes There are guidelines on calculating the costs and the risks of production using

continuous flow microreactors Complete with case studies this is an essential guide for chemists and engineers interested in investigating the advantages of chemical microreactors *Innovation in agri-food systems* W.M.F. Jongen,M.T.G.

Meulenberg,2023-09-04 This is a fully rewritten and extended version of the successful first edition of a textbook which focuses on consumer driven food product innovation using a systems oriented approach It integrates marketing and consumer sciences with technological aspects such as processing logistics and information technology and presents an integrated view of how new food product development is to be situated in a chain oriented approach Attention is also paid to the impact of changes in the environment of the agri food system on food innovation such as the changing consumer the growing concern about food safety and new insights in human nutrition Topics covered include changing markets consumer perception of product quality quality function deployment the use of new and improved technology in food production logistics and information technology the role of regulation and legislation quality management and control systems such as HACCP and TQM The chapters of the first edition have been updated and extended New chapters have been added on consumer behaviour corporate strategy food safety and nutritional aspects of food innovation Researchers and professionals in the food industry as well as students of food science food technology and management will find this publication provides valuable information on the latest developments in the product innovation by agri food systems **Fundamentals of**

Interface and Colloid Science J. Lyklema,2005-03-30 Volume IV 2005 covers preparation characterization of colloids stability and interaction between pairs of particles and in concentrated systems their rheology and dynamics This volume contains two chapters written or co authored by J Lyklema and edited contributions by A P Philipse H P van Leeuwen M Minor A Vrij R Tuinier and T van Vliet The volume is logically followed by Vol V but is equally valuable as a stand alone reference Combined with part V this volume completes the prestigious series Fundamentals of Interface and Colloid Science Together with volume V this book provides a general physical chemical background to colloid science Covers all aspects of particle colloids *Drinking Water Disinfection Techniques* Jyoti Kishen Kumar,Aniruddha Bhalchandra Pandit,2012-12-13

Water is our natural heritage our miracle of life However our increasingly technological society has become indifferent to water Far from being pure modern drinking water around the world contains many undesirable chemical and bacterial contaminants The existing techniques employed for the disinfection of water are either energy intensive or **Extracellular Vesicles in Health and Disease** Paul Harrison,Chris Gardiner,Ian L. Sargent,2014-05-02 Interest in the role of extracellular vesicles microvesicles and exosomes is expanding rapidly It is now apparent that far from being merely cellular debris these vesicles play a key role in cell to cell communication and signaling Moreover they are significantly elevated in a number of diseases This raises the question of their direct role *Biotechnological Progress and Beverage Consumption* Alexandru Grumezescu,Alina Maria Holban,2019-09-17 Biotechnological Progress and Beverage Consumption Volume 19 in the Science of Beverages series presents a scientific resource that discusses current and emerging advancements in technologies and

novel applications to help researchers understand and apply the latest techniques to improve beverages This reliable reference explores how beverages have been improved through biotechnology and provides technical information to improve professional development in a competitive market Topics include a broad range of trends where some of the most advancements have been made including improvements in bioactive concentration probiotics green technologies in fermentation and in clarification processes Provides technical aspects of bioprocesses for a deeper understanding of product creation Presents modeling and simulation examples for quality control and safety of fermented beverages Includes research methods and analysis to improve product development including texture and flavor Micro and Nanomechanics, Volume 5 LaVern Starman,Jenny Hay,2025-08-07 Micro and Nanomechanics Volume 5 of the Proceedings of the 2017 SEM Annual Conference Exposition on Experimental and Applied Mechanics the fifth volume of nine from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on a wide range of areas including MEMS Energy Harvesting 1D 2D Materials Fabrication Micro Nano Microscopy Techniques Nanomechanics Flexible Stretchable Electronics Interfaces Adhesion **Modeling Food Processing Operations** Serafim Bakalis,Kai Knoerzer,Peter J Fryer,2015-04-28 Computational modeling is an important tool for understanding and improving food processing and manufacturing It is used for many different purposes including process design and process optimization However modeling goes beyond the process and can include applications to understand and optimize food storage and the food supply chain and to perform a life cycle analysis Modeling Food Processing Operations provides a comprehensive overview of the various applications of modeling in conventional food processing The needs of industry current practices and state of the art technologies are examined and case studies are provided Part One provides an introduction to the topic with a particular focus on modeling and simulation strategies in food processing operations Part Two reviews the modeling of various food processes involving heating and cooling These processes include thermal inactivation sterilization and pasteurization drying baking frying and chilled and frozen food processing storage and display Part Three examines the modeling of multiphase unit operations such as membrane separation extrusion processes and food digestion and reviews models used to optimize food distribution Comprehensively reviews the various applications of modeling in conventional food processing Examines the modeling of multiphase unit operations and various food processes involving heating and cooling Analyzes the models used to optimize food distribution Encapsulation and Controlled Release Technologies in Food Systems Dr Jamileh M. Lakkis,2016-02-11 The emergence of the discipline of encapsulation and controlled release has had a great impact on the food and dietary supplements sectors principally around fortifying food systems with nutrients and health promoting ingredients The successful incorporation of these actives in food formulations depends on preserving their stability and bioavailability as well as masking undesirable flavors throughout processing shelf life and consumption This second edition of Encapsulation and Controlled Release Technologies in Food Systems serves as an improvement and a

complement companion to the first. However it differentiates itself in two main aspects. Firstly it introduces the reader to novel encapsulation and controlled release technologies which have not yet been addressed by any existing book on this matter and secondly it offers an in depth discussion on the impact of encapsulation and controlled release technologies on the bioavailability of health ingredients and other actives. In common with the first edition the book includes chapters written by distinguished authors and researchers in their respective areas of specialization. This book is designed as a reference for scientists and formulators in the food, nutraceuticals and consumer products industries who are looking to formulate new or existing products using microencapsulated ingredients. It is also a post graduate text designed to provide students with an introduction to encapsulation and controlled release along with detailed coverage of various encapsulation technologies and their adaptability to specific applications.

Functional Nanostructured Membranes Enrico Drioli, Lidietta Giorno, Annarosa Gugliuzza, 2018-12-07. A membrane is considered the heart of every separation process because it is developed as a nanostructured nanofunctionalized thin barrier that controls the exchange between two phases not only by external forces and under the effect of fluid properties but also through the intrinsic characteristics of the membrane material itself. This book compiles cutting edge research in membrane science, nanomaterials and nanotechnologies mainly from interdisciplinary research groups at the Institute on Membrane Technology, National Research Council ITM-CNR Italy, working on membrane design, membrane process engineering and selected materials and practices for enhanced transport of mass, charge and energy. It covers topics on the design of new nanostructured membranes with improved properties together with the identification of efficient transport-property relationships. It shares and strengthens the knowledge of making membrane technology a much more powerful and eco-friendly route enabling one to provide prospective solutions and benefits for numerous fields of applications where traditional separation technologies suffer from many deficiencies. It is a great reference for researchers and investigators, graduate, PhD and postgraduate students and end users interested in membrane science and technology, nanomaterials, eco-friendly separation, chemistry, biology and process engineering.

Sustainable Industrial Chemistry Fabrizio Cavani, Gabriele Centi, Siglinda Perathoner, Ferruccio Trifirò, 2009-09-22. In recent years the need for sustainable process design and alternative reaction routes to reduce industry's impact on the environment has gained vital importance. The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible. Specific examples written by experts from industry cover the possibilities of running industrial chemical processes in a sustainable manner and provide an up to date insight into the main concerns, e.g. the use of renewable raw materials, the use of alternative energy sources in chemical processes, the design of intrinsically safe processes, microreactor and integrated reaction separation technologies, process intensification, waste reduction, new catalytic routes and/or solvent and process optimization.

Nanotechnology in the Food, Beverage and Nutraceutical Industries Qingrong Huang, 2012-04-19. Nanotechnology has the potential to impact on food processing significantly. This

important book summarises current research in this area and provides an overview of both current and possible future applications of nanotechnologies in the food industry. Issues such as safety and regulation are also addressed. After an introductory overview, the first part discusses general issues such as risk assessment, the regulatory framework, detection and characterisation of nanoparticles in food. Part two summarises the wide range of applications of nanotechnology in food processing, including nanoscale nutraceutical delivery systems, nanoemulsions and colloids, nanoscale rapid detection devices for contaminants, nanofiltration and nanocomposite packaging materials. With its distinguished editor and international team of contributors, *Nanotechnology in the food, beverage and nutraceutical industries* is a valuable reference work for both food processors and those researching this expanding field. Discusses issues such as risk assessment, regulatory framework, detection and characterisation of nanoparticles in food. Summarises the wide range of applications of nanotechnology in food processing, including nutraceutical delivery and packaging materials. Written by a distinguished team of international contributors, this book is an invaluable reference for industry professionals and academics alike.

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