

Developments in  
membrane processes  
for food applications



- New membranes (e.g. ...)
- New devices (e.g. su... pulsed ED)
- New products (e.g. n...)
- New pretreatments
- ...



- Treatment of sugar vinasse
- ...

# Membrane Applications And Research In Food Processing

**M. SELVAMUTHUKUMARAN**



## **Membrane Applications And Research In Food Processing:**

**Membrane Applications and Research in Food Processing** Charles M. Mohr, 1989 An assessment of membrane applications for food processing intended to aid in planning separations research and development projects aimed at reducing energy consumption in the food industry The assessment is organized according to Standard Industry Classification SIC Code for the food industry

**Applications of Membrane Technology for Food Processing Industries M.** SELVAMUTHUKUMARAN, 2020-10-14 Membranes processing techniques are used to help separate chemical components based on molecular size under specific pressure A great advantage of membrane processing techniques is that it is a non thermal processing technique which can retain enormous bioactive constituents to a greater extent Being a less energy intensive process this technique is widely used in several food processing industries such as in the clarification of fruit juices and wine the concentration of milk the preparation of whey protein concentrate and water and waste treatment among others Applications of Membrane Technology for Food Processing Industries introduces membrane processing techniques presenting principles theory and operational conditions for achieving efficient quality product It discusses different types of membrane processing techniques viz reverse osmosis nanofiltration ultrafiltration electro dialysis microfiltration pervaporation including its applications advantages and disadvantages Key Features Deals with the retention of antioxidants by using novel membrane processing techniques Includes the application of membrane processing techniques in whey processing Explains the method for degumming dewaxing and decolorization of edible crude oils Narrates application of membrane processing techniques in waste water treatment for efficient use Readers such as professors scientist research scholars students and industrial personnel will come to know about the current trends in use of membrane processing techniques for its application in several food processing industries This book can be a ready reference for the food industrial industry for manufacturing of deacidified clarified fruit juices and wine by using integrated membrane technique approach In a nutshell this book will benefit food scientist academicians students and food industrial persons by providing in depth knowledge about membrane processing of foods for quality retention and also for efficient consumer acceptability

**Food Processing** Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-04-03 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

**Non-Thermal Processing of Functional Foods** Sudip Kumar Pattanayek, Debashis Dutta, Ajay Singh, 2024-12-31 Functional foods also known as nutraceuticals began to gain prominence in the 1980s in Japan as foods for specified health use and became more widely recognized in the 1990s as research and interest in foods that could provide specific health benefits beyond essential nutrition grew worldwide These foods are typically enriched with bioactive components or formulated to contain substances or live microorganisms with a possible health enhancing or disease preventing value and at a safe and sufficiently high concentration to achieve the intended benefit Usually the added ingredients are classified as nutrients dietary fiber phytochemicals other substances or probiotics The production storage and consumer consumption of these functional foods require special attention to preserve quality attributes The production process of these foods can be classified as conventionally used thermal processing methods and non thermal alternatives In addition these processes may be combined with biological approaches involving enzymatic treatment and fermentation The various non thermal processes such as ultrasounds high hydrostatic pressure vacuum impregnation high voltage electrical discharge cold plasma pulsed light ozonation etc can be utilized for a product to sustain preserve quality attributes of the ingredients long shelf life and sensory qualities This book compiles the latest non thermal processing technologies to develop functional foods The book discusses bioactivity bioaccessibility and bioavailability related to nutrition and functional food ingredients It has 16 articles on different aspects of non thermal processing technologies Chapter 1 has discussed a general overview of emerging technologies and various non thermal processing techniques are discussed in Chapters 2 6 8 9 and 12 Chapters 7 11 13 15 and 16 discuss food safety and preservation We have discussed the functional foods and bioactive compounds in Chapters 10 and 14 A few of these reviews discuss the impact of developing non thermal technologies on several food components proteins carbohydrates lipids minerals vitamins polyphenols glucosinolates fragrance compounds and enzymes while maintaining the structure and functional properties This book is an excellent source of information for professionals postgraduate students and researchers in food sciences and chemical engineering

*Membrane Technology for Water and Wastewater Treatment, Energy and Environment* A.F. Ismail, Takeshi Matsuura, 2016-03-16 Realizing that water energy and food are the three pillars to sustain the growth of human population in the future this book deals with all the above aspects with particular emphasis on water and energy In particular the book addresses applications of membrane science and technology for water and wastewater treatment energy and environment Th

*Computational Fluid Dynamics in Food Processing* Da-Wen Sun, 2007-05-24 The implementation of early stage simulation tools specifically computational fluid dynamics CFD is an international and interdisciplinary trend that allows engineers to computer test concepts all the way

through the development of a process or system With the enhancement of computing power and efficiency and the availability of affordable CF

*Introduction to Membrane Science and Technology* Heinrich Strathmann,2011-10-17 Written by a dedicated lecturer and leading membrane scientist who has worked both in academia and industry this advanced textbook provides an impressive overview of all aspects of membranes and their applications Together with numerous industrial case studies practical examples and questions the book provides an excellent and comprehensive introduction to the topic Advanced students as well as process and chemical engineers working in industry will profit from this resource A significant feature of the book is the treatment of more recently developed membranes and their applications in energy conversion biomedical components controlled release devices and environmental engineering with an indication of the present and future commercial impact The solutions to the questions in the book can be found under [http://www.wiley-vch.de/publish/en/books/ISBN3\\_537\\_32451\\_8](http://www.wiley-vch.de/publish/en/books/ISBN3_537_32451_8) From the Contents Introduction Fundamentals Membrane Preparation and Characterization Principles of Membrane Separation Processes Membrane Modules and Concentration Polarization Membrane Process Design and Operation

**Energy Research Abstracts** ,1990 *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

[Separation of Functional Molecules in Food by Membrane Technology](#) Charis M. Galanakis,2018-11-14 Separation of Functional Molecules in Food by Membrane Technology deals with an issue that is becoming a new research trend in the field of food and bioproducts processing The book fills in the gap of transfer knowledge between academia and industry by highlighting membrane techniques and applications for the separation of food components in bioresources discussing separation mechanisms balancing advantages and disadvantages and providing relevant applications Edited by Charis Galanakis the book is divided in 13 chapters written by experts from the meat science food technology and engineering industries Covers the 13 most relevant topics of functional macro and micro molecules separation using membrane technology in the food industry Brings the most recent advances in the field of membrane processing Presents the sustainability principles of the food industry and the modern bioeconomy frame of our times

**Chemistry and Industry** ,1990 **Indian Food Industry** ,1990

**Separation Process Engineering** Phillip C. Wankat,2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date

simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation

**Proceedings of the 1998 Sugar Processing Research Conference** Mary An Godshall, Sugar Processing Research Conference (9, 1998, Savannah, Ga.), 1998

**Fractionation of Skim Milk by Microfiltration** Veronica Mascarúa-Galindo, 1994

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