
SEPARATIONS TECHNOLOGY



Pharmaceutical and Biotechnology Applications

**Edited by
Wayne P. Olson**



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Separations Technology Pharmaceutical And Biotechnology Applications

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Separations Technology Pharmaceutical And Biotechnology Applications:

Separations Technology Wayne P. Olson, 2020-02-03 Authored by a team of respected scientists and technologists this book covers many pharmaceutical and biotechnology separations methods currently in use Practical applications and descriptions are offered for air elutriation microporous filtration ultrafiltration phase partitioning crystallization and chromatographic technologies such as adsorption affinity chelate ion exchange size exclusion template hydrophobic interaction biotransformations and chiral separations Containing hundreds of references and a complete index this book is designed for research and development scientists process optimization engineers and quality control laboratory scientists as well as quality assurance professionals and others needing to understand current separation techniques [Handbook of Membrane Separations](#) Anil K. 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 chemical pharmaceutical food processing and biotechnological applications of membrane processes ranging from selective separation to solvent and material recovery This text also presents in depth knowledge of membrane separation mechanisms transport models membrane permeability computations membrane types and modules as well as membrane reactors [Biotechnology Fundamentals](#) Firdos Alam Khan, 2011-09-20 The focus of Biotechnology Fundamentals is to educate readers on both classical and modern aspects of biotechnology and to expose them to a range of topics from basic information to complex technicalities Other books cover subjects individually but this text offers a rare topical combination of coverage using numerous helpful illustrations to explore the information that students and researchers need to intelligently shape their careers Keeping pace with the rapid advancement of the field topics covered include How biotechnology products are produced Differences between scientific research conducted in universities and industry Which areas of biotechnology offer the best and most challenging career opportunities Key laboratory techniques and protocols employed in the field The contents of this book are derived from discussions between teachers and undergraduate students and designed to address the concepts and methods thought useful by both sides Starting with the fundamentals of biotechnology coverage includes definitions historical perspectives timelines and major discoveries in addition to products research and development career prospects ethical issues and future trends The author explains that even before it had been classified as its own field biotechnology was already being applied in plant breeding in vitro fertilization alcohol fermentation and other areas He then delves into new developments in areas including stem cell research cloning biofuels transgenic plants genetically modified food crops pharmacogenomics and nanobiotechnology Incorporating extensive pedagogy into the content this book provides plenty of examples end of chapter problems case studies and lab tutorials to help reinforce understanding **Membrane**

Separation in Wastewater Purification and Biotechnology Application Dwaipayan Sen, Ankita Mazumder, 2025-09-02

The book addresses fundamental principles of the membrane separation technology along with an insight of the modern membrane separation process. Conventional membrane processes are discussed in several books; advanced membrane separation processes like ionexchange membrane separation etc. are fragmentally discussed in several scientific journals and patents. Therefore, here the discussion is made on most advanced membrane applications from sensing biomarkers to tissue engineering along with different case studies. It will benefit heterogeneous audience including practitioners, process engineers, researchers, and students from chemical engineering, biochemical engineering, and environmental engineering. The most interesting feature that may attract is the inclusion of machine learning in predicting and designing the membrane processes. This book can be referred by someone who wishes to learn about the fundamental principles and a general area of application along with scholars seeking more detailed information about the recent advancement in membrane separation technologies.

Sterilization of Drugs and Devices Fred M. Nordhauser, Wayne P. Olson, 2018-03-29 Editors Fred M Nordhauser and Wayne P Olson have gathered a team of 18 experts from multi national and leading edge companies to explore the advantages and disadvantages of current sterilization technologies. They cover the theory behind the technology, the practical concerns of installation from engineering and product development perspectives, the how to validate concern and the pragmatics of implementation in a manner that will satisfy the regulatory agencies. The broad range of in depth information on numerous technologies will help readers design sterile manufacturing processes cost effectively and efficiently.

Basic Biotechniques for Bioprocess and Bioentrepreneurship Arvind Kumar Bhatt, Ravi Kant Bhatia, Tek Chand Bhalla, 2023-02-03 Basic Biotechniques for Bioprocess and Bioentrepreneurship deals with the entire field of industrial biotechnology starting from the basic laboratory techniques to scale up process development demonstration and finally its commercialization. The book compiles currently scattered materials on this topic and updates this information based on practical experience and requirements. The book will be an ideal source for new entrepreneurs who wish to start their own commercial units. Offers guidance for readers, researchers, start ups, entrepreneurs on how to develop new microbiological and biotechnical processes. Focuses on basic knowledge and possible solutions to the practical difficulties at all levels in one place through understanding of basic techniques in lab, during bioprocess development, commercialization, technology transfer, marketing, and others which is presently not available in the field. Provides multifaceted coverage with industry insights from experienced practitioners and leaders in the field. Gives possible best solutions to the practical difficulties at all levels i.e. lab scale up and commercial stage. Addresses ethical and other regulatory issues.

Ultrafiltration and Microfiltration Handbook Munir Cheryan, 1998-01-26 Soon after its publication in 1987 the first edition of Ultrafiltration Handbook became recognized as the leading handbook on ultrafiltration technology. Reviews in professional journals praised it as an authoritative and substantive information resource on this technology. Now a completely updated and expanded

edition is available under the title Ultrafiltration and Microfiltration Handbook This practical handbook systematically covers the basics of this technology from its scientific fundamentals to a wide range of industrial applications The presentation is clear and concise with the emphasis on practical use Many schematics and micrographs illustrate membranes equipment and processes Numerous tables and graphs provide useful data on specifications and performance The updated information is useful to all those involved in the use of separation and filtration in industrial processes

Membrane Separations in Biotechnology William K. Wang, 2001-04-03 This text details the relationship between membrane technology and bioprocesses discussing applications This second edition refines and optimizes key features of the first edition and features new illustrative case studies The book examines advantages and disadvantages of using standard and new membrane technologies analyzes a wide range of a

Membrane Technology in Separation Science Mihir K. Purkait, Randeep Singh, 2018-02-19 The book explains fundamental and advanced topics related to the field of membrane science including extensive coverage of material selection preparation characterization and applications of various membranes Explores both preparation and wide range of applications for all possible membranes contains an exclusive chapter on functionalized membranes and incorporation of stimuli responsive membranes in each type and includes exercise problems after each chapter It also discusses new membrane operations as membrane reactors and membrane contactors

Membrane Technology Sundergopal Sridhar, 2018-09-03 Contributed by multiple experts the book covers the scientific and engineering aspects of membrane processes and systems It aims to cover basic concepts of novel membrane processes including membrane bioreactors microbial fuel cell forward osmosis electro dialysis and membrane contactors Maintains a pragmatic approach involving design operation and cost analysis of pilot plants as well as scaled up counterparts

Gene Transfer and Expression in Mammalian Cells S.C. Makrides, 2003-10-24 The production of proteins in mammalian cells is an important tool in numerous scientific and commercial areas For example proteins for human therapy vaccination or diagnostic applications are typically produced in mammalian cells Gene cloning protein engineering biochemical and biophysical characterization of proteins also require the use of gene expression in mammalian cells Other applications in widespread use involve screening of libraries of chemical compounds in drug discovery and the development of cell based biosensors This book presents a state of the art comprehensive coverage of the technical aspects of gene expression in mammalian cells written by experienced scientists working at the forefront of the field

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Kirk-Othmer, 2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field

Particle Separation Techniques , 2022-07-22 Particle Separation

Techniques Fundamentals Instrumentation and Selected Applications presents the latest research in the field of particle separation methods This edited book authored by subject specialists is logically organized in sections grouping the separation techniques according to their preparative or analytical purposes and the particle type Along with the traditional and classical separation methods suitable for micronic particles an update survey of techniques appropriate for nanoparticle characterization is presented This book fills the gap in the literature of particle suspension analysis of a synthetic but comprehensive manual helping the reader to identify and apply selected techniques It provides an overview of the techniques available to a reader who is not an expert on particle separation yet about to enter the field design an experiment or buy an instrument for his her new lab Presents a resource that is ideal for anyone preparing samples across a variety of fields including pharmaceuticals food science pollution analysis and control agricultural products and more Includes real case examples discussed by leading experts in the field Provides chapters that contain a unique common table that summarizes points of strength and the weaknesses of each technique

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

Practical HPLC Method Development Lloyd R. Snyder, Joseph J. Kirkland, Joseph L. Glajch, 2012-12-03 This revision brings the reader completely up to date on the evolving methods associated with increasingly more complex sample types analyzed using high performance liquid chromatography or HPLC The book also incorporates updated discussions of many of the fundamental components of HPLC systems and practical issues associated with the use of this analytical method This edition includes new or expanded treatments of sample preparation computer assisted method development as well as biochemical samples and chiral separations

Chemical Abstracts Service Source Index American Chemical Society. Chemical Abstracts Service, 1907 A key source to journal and conference abbreviations in the sciences Although it focuses on chemistry other scientific and engineering disciplines are also well represented In addition to the abbreviation and full title each entry also contains publishing info title changes language and frequency of publication and libraries owning that title Over 130 000 entries representing more than 70 000 publications dating back to 1907 are included

Guide to Microbiological Control in Pharmaceuticals and Medical Devices, Second Edition Stephen P. Denyer, Rosamund M. Baird, 2006-12-26 Microbiological matters continue to exercise

considerable influence on product quality In both the pharmaceutical and medical device industries products of greater sophistication along with evolving regulatory requirements are elevating the challenges related to maintaining microbiological integrity Updated to reflect technological and regulatory changes the Guide to Microbiological Control in Pharmaceuticals and Medical Devices Second Edition covers those principal aspects of microbiology that are relevant to the preformulation formulation manufacturing and license application stages involved with the production of pharmaceuticals and medical devices In recognition of the diverse disciplines involved in pharmaceutical and medical device production this work provides a brief introduction to microbiology geared towards the nonmicrobiologist Covering good manufacturing practice in the control of contamination the text explores quality control the preservation of formulations and principles of sterilization including microbiological specific considerations for biotechnological products and other medical devices It also provides additional materials on package integrity and contamination risks in clean rooms The editors have produced a companion text the Handbook of Microbiological Quality Control in Pharmaceuticals and Medical Devices see reverse which when paired with the Guide offers a complete theoretical and practical treatment of microbiological control This book provides a comprehensive distillation of information concerning methodology and regulations that would otherwise remain scattered throughout the literature It allows scientists from many fields to address potential problems in advance and implement suitable strategies at the earliest stages of development

Bioreactor Design Concepts for Viral Vaccine

Production Surajbhan Sevda, Sachin Kumar, 2024-05-12 Bioreactor Design Concepts for Viral Vaccine Production covers a range of interdisciplinary chapters from the engineering perspective of bioreactor design to the biotechnological perspectives of vector design for vaccine development The book covers bioreactor concepts such as static systems single use systems stirred tanks perfusion wave and packed beds It reviews options for efficient and economical production of human vaccines and discusses basic factors relevant for viral antigen production in mammalian cells avian cells and insect cells This book will be a great resource for those interested in implemented novel bioreactor design or experimental schemes towards intensified or and enhanced vaccine production Covers the fundamentals of bioreactor designs Provides strategies for designing a successful vector based vaccine Discusses the applications of biological kinetics thermodynamics and basic substrate requirements for viral vaccine production

Membrane Processes in Biotechnology and Pharmaceutics

Catherine Charcosset, 2012-01-25 Membrane processes are increasingly used in pharmaceutical and biochemical engineering and biotechnology for concentration and purification synthesis of molecules and drug delivery systems and support for biochemical reactions This book provides a state of the art overview of the classical membrane processes used in pharmaceutical and biochemical engineering and biotechnology such as ultrafiltration microfiltration virus filtration membrane chromatography membrane emulsification liquid membranes and membrane bioreactors It describes the general rules principles choice of configurations membranes parameters etc recent developments fouling control increase permeate

flux and selectivity etc applications and theoretical descriptions Further it presents emerging processes such as solvent resistant nanofiltration and membrane crystallization Presents classical membrane processes such as ultrafiltration microfiltration virus filtration membrane chromatography membrane emulsification liquid membranes and membrane bioreactors Presents emerging processes such as solvent resistant nanofiltration and membrane crystallization Gives a complete description of each technique principles membrane materials and devices fouling control and theoretical description Contains numerous examples of applications Includes a uniform notation throughout the book enhancing the presentation and understanding of the content Includes extensive list of references

Industrial Chemical Separation
Timothy C. Frank, Bruce S. Holden, 2023-08-07 A fresh new treatment written by industry insiders this work gives readers a remarkably clear view into the world of chemical separation The authors review distillation extraction adsorption crystallization and the use of membranes providing historical perspective explaining key features and offering insights from personal experience The book is for engineers and chemists with current or future responsibility for chemical separation on a commercial scale in its design operation or improvement or for anyone wanting to learn more about chemical separation from an industrial point of view The result is a compelling survey of popular technologies and the profession one that brings the art and craft of chemical separation to life Ever wonder how popular separation technologies came about how a particular process functions or how mass transfer units differ from theoretical stages Or perhaps you want some pointers on how to begin solving a separation problem You will find clear explanations and valuable insights into these and other aspects of industrial practice in this refreshing new survey

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