

HANDBOOK OF BIODISPERMATIONS



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CL Gary



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Handbook of Bioseparations Satinder Ahuja, 2000-06-23 It is generally recognized that the commercial success of biotechnology products is highly dependent on the successful development and application of high powered separation and purification methods In this practical and authoritative handbook the separation of proteins nucleic acids and oligonucleotides from biological matrices is covered from analytical to process scales Also included in a chapter on the separation of monoclonal antibodies which have found numerous uses as therapeutic and diagnostic agents Analytical techniques include an interesting montage of chromatographic methods capillary electrophoresis isoelectric focusing and mass spectrometry Among separation and purification methods liquid liquid distribution displacement chromatography expanded bed adsorption membrane chromatography and simulated moving bed chromatography are covered at length Regulatory and economic considerations are addressed as are plant and process equipment and engineering process control A chapter on future developments highlights the application of DNA chip arrays as well as evolving methodologies for a large number of drugs that are under development for treatment of cancer AIDS rheumatoid arthritis and Alzheimer s disease Handbook of Bioseparations serves as an essential reference and guidebook for separation scientists working in the pharmaceutical and biotechnology industries academia and government laboratories Key Features Covers bioseparations of proteins nucleic acids and monoclonal antibodies Encompasses both analytical and process scale methods Elucidates the importance of engineering process control Details selection of plant and process equipment Addresses economic considerations Discusses future developments *Process Scale Bioseparations for the Biopharmaceutical Industry* Abhinav A. Shukla, Mark R. Etzel, Shishir Gadgil, 2006-07-07 The biopharmaceutical industry has become an increasingly important player in the global economy and the success of these products depends on the development and implementation of cost effective robust and scaleable production processes Bioseparations also called downstream processing can be a key source of competitive advantage to biopharmaceut *Principles Of Bioseparations Engineering* Raja Ghosh, 2006-10-23 Bioseparations engineering deals with the scientific and engineering principles involved in large scale separation and purification of biological products It is a key component of most chemical engineering biotechnology bioprocess engineering programmes This book discusses the underlying principles of bioseparations engineering written from the perspective of an undergraduate course It covers membrane based bioseparations in much more detail than some of the other books on bioseparations engineering Based largely on the lecture notes the author developed to teach the course this book is especially suitable for use as an undergraduate level textbook as most other textbooks are targeted at graduate students

Biopharmaceutical Processing Gunter Jagschies, Eva Lindskog, Karol Lacki, Parrish M. Galliher, 2018-01-18 Biopharmaceutical Processing Development Design and Implementation of Manufacturing Processes covers bioprocessing from cell line development to bulk drug substances The methods and strategies described are essential learning for every

scientist engineer or manager in the biopharmaceutical and vaccines industry The integrity of the bioprocess ultimately determines the quality of the product in the biotherapeutics arena and this book covers every stage including all technologies related to downstream purification and upstream processing fields Economic considerations are included throughout with recommendations for lowering costs and improving efficiencies Designed for quick reference and easy accessibility of facts calculations and guidelines this book is an essential tool for industrial scientists and managers in the biopharmaceutical industry Offers a comprehensive go to reference for daily work decisions Covers both upstream and downstream processes Includes case studies that emphasize financial outcomes Presents summaries decision grids graphs and overviews for quick reference

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

Bioseparations Science and Engineering Roger G. Harrison, Paul W. Todd, Scott R. Rudge, Demetri P. Petrides, 2015-01-27 An updated edition of a comprehensive and authoritative chemical engineering textbook on bioseparations science updated to include new information on topics like moment analysis chromatography and evaporation

Handbook of Affinity Chromatography Toni Kline, 1993-06-16 Outlining the fundamental principles by which all interactions occur this reference focuses on harnessing the biochemistry of bioorganic compounds in order to separate them presenting new techniques and applications that affect the planning of research strategies The contributors discuss how to c

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Handbook of Industrial Drying Arun S. Mujumdar, 2014-07-11 This Fourth Edition book includes 12 new chapters covering computational fluid dynamic simulation solar impingement and pulse combustion drying drying of fruits vegetables sugar biomass and coal physicochemical aspects of sludge drying and life cycle assessment of drying systems Addressing commonly encountered dryers as well as innovative dryers with future potential the fully revised text not only

delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations to increase energy efficiency and cost effectiveness *Handbook of Industrial Drying, Fourth Edition* Arun S. Mujumdar, 2014-07-11 By far the most commonly encountered and energy intensive unit operation in almost all industrial sectors industrial drying continues to attract the interest of scientists researchers and engineers The Handbook of Industrial Drying Fourth Edition not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations New to the Fourth Edition Computational fluid dynamic simulation Solar impingement and pulse combustion drying Drying of fruits vegetables sugar biomass and coal Physicochemical aspects of sludge drying Life cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential the Handbook of Industrial Drying Fourth Edition not only details the latest developments in the field but also explains how improvements in dryer design and operation can increase energy efficiency and cost effectiveness

Handbook of Molecular and Cellular Methods in Biology and Medicine Leland J. Cseke, Ara Kirakosyan, Peter B. Kaufman, Margaret V. Westfall, 2016-04-19 Several milestones in biology have been achieved since the first publication of the Handbook of Molecular and Cellular Methods in Biology and Medicine This is true particularly with respect to genome level sequencing of higher eukaryotes the invention of DNA microarray technology advances in bioinformatics and the development of RNAi technology

Bioseparations of Proteins Ajit Sadana, 1997-11-27 This book covers the fundamentals of protein inactivation during bioseparation and the effect on protein processing Bioseparation of Proteins is unique because it provides a background of the bioseparation processes and it is the first book available to emphasize the influence of the different bioseparation processes on protein inactivation Bioseparation of Proteins covers the extent mechanisms of and control of protein inactivation during these processes along with the subsequent and essential validation of these processes The book focuses on the avoidance of protein biological product inactivation at each step in a bioprocess It compares protein inactivation exhibited during the different bioseparation processes by different workers and provides a valuable framework for workers in different areas interested in bioseparations Topics include separation and detection methods estimates of protein inactivation and an analysis of this problem for different separation processes strategies for avoiding inactivation the molecular basis of surface activity and protein adsorption process monitoring and product validation techniques and the economics of various bioseparation processes and quality control procedures Key Features Protein inactivation and other aspects of biological stability are critical to an effective bioseparation process This book is a detailed and critical review of the available literature in an area that is essential to the effectiveness validation and economics of bioseparation processes for drugs and other biological products Conveniently assembled under one cover the survey of the literature and resulting perspective will greatly assist engineers and chemists in designing and improving their own processes Key features of the text include detailed data on biological stability under various bioseparation conditions

extensive case studies from the literature on separation processes validation and economics simplified analysis of protein refolding and inactivation mechanisms consideration of adsorption theories and the effect of heterogeneity coverage of both classical and novel bioseparation techniques including chromatographic procedures *Purification of Laboratory Chemicals* W.L.F. Armarego, Christina Li Lin Chai, 2013 A best seller since 1966 *Purification of Laboratory Chemicals* keeps engineers scientists chemists biochemists and students up to date with the purification of the chemical reagents with which they work the processes for their purification and guides readers on critical safety and hazards for the safe handling of chemicals and processes The Seventh Edition is fully updated and provides expanded coverage of the latest commercially available chemical products and processing techniques safety and hazards over 200 pages of coverage of new commercially available chemicals since the previous edition The only comprehensive chemical purification reference a market leader since 1966 Amarego delivers essential information for research and industrial chemists pharmacists and engineers it will be the most commonly used reference book in any chemical or biochemical laboratory MDPI Journal An essential lab practice and procedures manual Improves efficiency results and safety by providing critical information for day to day lab and processing work Improved clear organization and new indexing delivers accurate reliable information on processes and techniques of purification along with detailed physical properties The Sixth Edition has been reorganised and is fully indexed by CAS Registry Numbers compounds are now grouped to make navigation easier literature references for all substances and techniques have been added ambiguous alternate names and cross references removed new chemical products and processing techniques are covered hazards and safety remain central to the book **Biopharmaceutical Production**

Technology, 2 Volume Set Ganapathy Subramanian, 2012-08-20 Cost effective manufacturing of biopharmaceutical products is rapidly gaining in importance while healthcare systems across the globe are looking to contain costs and improve efficiency To adapt to these changes industries need to review and streamline their manufacturing processes This two volume handbook systematically addresses the key steps and challenges in the production process and provides valuable information for medium to large scale producers of biopharmaceuticals It is divided into seven major parts Upstream Technologies Protein Recovery Advances in Process Development Analytical Technologies Quality Control Process Design and Management Changing Face of Processing With contributions by around 40 experts from academia as well as small and large biopharmaceutical companies this unique handbook is full of first hand knowledge on how to produce biopharmaceuticals in a cost effective and quality controlled manner **Manual of Industrial Microbiology and**

Biotechnology Richard H. Baltz, Arnold L. Demain, Julian E. Davies, 2010-03-25 A rich array of methods and discussions of productive microbial processes Reviews of the newest techniques approaches and options in the use of microorganisms and other cell culture systems for the manufacture of pharmaceuticals industrial enzymes and proteins foods and beverages fuels and fine chemicals and other products Focuses on the latest advances and findings on the current state of the art and science

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Bioavailability, Bioaccessibility and Mobility of Environmental Contaminants John R. Dean, 2007-04-30 This book covers all aspects of bioavailability as related to environmental contaminants After a discussion of the definition of bioavailability and its context focus is placed on the role of risk assessment and bioavailability Methods of analysis are then discussed including a range of atomic spectroscopic and electrochemical techniques for metal analysis and chromatographic approaches for persistent organic pollutants POPs The occurrence properties and eco toxicity of POPs and metals in the soil sediment environment are discussed Particular emphasis is placed on the uptake of POPs and metals by plants phytoextraction Examples of POPs and metals in the environment are reviewed Methods to assess the bioavailability of POPs and metals in the environment are discussed The particular approaches considered are non exhaustive extraction techniques single extraction techniques sequential extraction techniques use of cyclodextrin and surfactants in vitro gastrointestinal methods including physiological based extraction test the use of bioassays including earthworms Finally selected case studies highlight the importance of determining the bioavailability of POPs and metals **Methods for Environmental Trace Analysis** John R. Dean, 2003-04-18 Table of contents **Handbook of Biogeneric Therapeutic Proteins** Sarfaraz K. Niazi, 2002-08-15 More than 20 billion dollars worth of biopharmaceuticals are scheduled to go off patent by 2006 Given the strong political impetus and the development of technological tools that can answer the questions regulatory authorities may raise it is inevitable that the FDA and EMEA will allow biogeneric or biosimilar products Even with all the regulato

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