

BIOSEPARATIONS SCIENCE AND ENGINEERING

Second Edition

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purification processes of fermentation products Presents economic and feasibility assessments of the various processes and their scaling up Links biotechnology and bioengineering for industrial process development Pharmaceutical Biotechnology Adalberto Pessoa, Michele Vitolo, Paul Frederick Long, 2021-07-15 Pharmaceutical Biotechnology A Focus on Industrial Application covers the development of new biopharmaceuticals as well as the improvement of those being produced The main purpose is to provide background and concepts related to pharmaceutical biotechnology together with an industrial perspective This is a comprehensive text for undergraduates graduates and academics in biochemistry pharmacology and biopharmaceutics as well as professionals working on the interdisciplinary field of pharmaceutical biotechnology Written with educators in mind this book provides teachers with background material to enhance their classes and offers students and other readers an easy to read text that examines the step by step stages of the development of new biopharmaceuticals Features Discusses specific points of great current relevance in relation to new processes as well as traditional processes Addresses the main unitary operations used in the biopharmaceutical industry such as upstream and downstream Includes chapters that allow a broad evaluation of the production process Dr Adalberto Pessoa Jr is Full Professor at the School of Pharmaceutical Sciences of the University of S o Paulo and Visiting Senior Professor at King s College London He has experience in enzyme and fermentation technology and in the purification processes of biotechnological products such as liquid liquid extraction cross flow filtration and chromatography of interest to the pharmaceutical and food industries Dr Michele Vitolo is Full Professor at the School of Pharmaceutical Sciences of the University of S o Paulo He has experience in enzyme technology in immobilization techniques aiming the reuse of the biocatalyst and in the operation of membrane reactors for obtaining biotechnological products of interest to the pharmaceutical chemical and food industries Dr Paul F Long is Professor of Biotechnology at King s College London and Visiting International Research Professor at the University of S o Paulo He is a microbiologist by training and his research uses a combination of bioinformatics laboratory and field studies to discover new medicines from nature particularly from the marine environment **BIOSPERATIONS** B. SIVASANKAR, 2005-01-01 This systematically organized and well balanced book compresses within the covers of a single volume the theoretical principles and techniques involved in bio separations also called downstream processing These techniques are derived from a range of subjects for example physical chemistry analytical chemistry bio chemistry biological science and chemical engineering Organized in its 15 chapters the text covers in the first few chapters topics related to chemical engineering unit operations such as filtration centrifugation adsorption extraction and membrane separation as applied to bioseparations The use of chromatography as practiced at laboratory as well as industrial scale operation and related techniques such as gel filtration affinity and pseudoaffinity chromatography ion exchange chromatography electrophoresis and related methods have been discussed The important applications of these techniques have also been highlighted **Engineering Processes for Bioseparations** LAURENCE R.

WEATHERLEY,2013-10-22 The use of biotechnology in chemical synthesis offers up numerous advantages to the engineer in the process industries but it also presents a number of fundamental challenges and difficulties which impinge directly on separation process requirements The use of biochemical separations has grown significantly during the past decade and is especially used in process industries such as healthcare and food processing However it is becoming increasingly more important in areas such as recycling and waste water treatment and as industry shifts towards cleaner processes biochemical separations will continue to grow The two main objectives of this book are to focus on the application of existing separation process techniques to the recovery and purification of biologically derived products and to examine the state of knowledge of new techniques which have future potential Within these objectives the complexities and breadth of problems associated with biological separations are discussed specific engineering techniques are featured and their adaptation to biochemical separations are highlighted Chemical Engineering Progress ,2009 **Bioseparation Engineering** I. Endo,T.

Nagamune,S. Katoh,T. Yonemoto,2000-03-17 The bioseparation engineering of today includes downstream process engineering such as waste water material and gas treatment Taking this tendency into account bioseparation engineers gathered in Japan as a special research group under the main theme of Recovery and Recycle of Resources to Protect the Global Environment The scope of this book is based on the conference and deals not only with recent advances in bioseparation engineering in a narrow sence but also the environmental engineering which includes waste water treatment and bioremediation The contributors of this book cover many disciplines such as chemical engineering analytical chemistry biochemistry and microbiology Bioseparation Engineering will stimulate young engineers and scientists who will develop bioseparation engineering further in the 21st century and contribute to a world wide attention to the global environment

Bioseparation Engineering Ajay Kumar,Abhishek Awasthi,2009 Bioseparation Engineering is meant for undergraduate and the postgraduate student community pursuing careers in Life Sciences It concentrates on the more recent methods and techniques for separating components and products of the biotechnology industry Each chapter deals with a specific type or area of application and includes information on the basic principles industrial equipment available commercial applications and an overview of current research and development Main objective of the book is to provide in depth knowledge of the subject in an interesting and paramount simple way **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 **Bioseparation** G.T. Tsao,2013-10-03 *Bioseparation* Georges Belfort,1992 **Bioseparation** G.T. Tsao,2014-03-12 **Liquid Biphasic System** Pau Loke Show,Sze Ying Lee,Kit Wayne Chew,2020-11-28 Downstream bioprocesses have a significant role to play in the creation of a sustainable bio based economy enabling the creation of new products and systems from the more sustainable bioprocessing of natural products Liquid Biphasic System Fundamentals Methods and Applications in Bioseparation Technology explores in detail the fundamental processes and applications of this new separation system aiding understanding of the basic principles of the technique and offering constructive criticisms on the latest findings Including coverage of the background principles mechanisms and applications Liquid Biphasic System addresses how to adapt the technology for the purification of useful compounds with greater cost efficiency and greener processing It is essential reading for bioprocess engineers biochemical engineers biosystem engineers chemists and microbiologists working in the fields of bioprocessing Researchers scientists and engineers concerned with the selection and evaluation of alternative bioseparation processes will find the book particularly useful Provides information and examples of advanced separations in a single source Includes detailed descriptions of novel bioseparation systems Covers the latest technologies related to advanced liquid liquid separation and their applications in various industries Industrial Bioseparations Daniel Forciniti,2008-07-01 Industrial Bioseparations offers comprehensive coverage of bioseparations including all unit operations This new book offers a careful balance between the fundamentals of bioseparations processing and the practical applications in industry today It is laid out in a methodical way with preliminary chapters covering general approaches to bioseparations for commercially important biomacromolecules thermodynamics and mass transfer principles and following chapters addressing unit operations such as filtration and chromatography Lab experiments are included which emphasize obtaining scale up parameters as well as commonly used operating conditions are included **Downstream Processing and Bioseparation** Jean-François Hamel,Jean B. Hunter,Subhas K. Sikdar,American Chemical Society. Division of Industrial and Engineering Chemistry,1990 This new volume examines the state of the art of several important separation processes as they relate to biotechnology Focusing on isolation and purification of downstream processing it presents recent research results of several promising techniques Its 15 chapters cover extraction and membrane processing processes using biospecific interaction with proteins and novel isolation and purification processes Many of the chapters contain data that have not been published before This volume presents the spectrum of current thinking and activities on bioseparation specifically of large molecules such as proteins and polysaccharides **Symposium in Print** Wolf-Dieter Deckwer,1991 **Bioseparation** ,1992

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