

Separation, Recovery, and Purification in Biotechnology

Separation Recovery And Purification In Biotechnology Recent Advances And Mathematical Modeling

Charles N. Bebee



Separation Recovery And Purification In Biotechnology Recent Advances And Mathematical Modeling:

Separation, Recovery, and Purification in Biotechnology Juan A. Asenjo, Juan Hong, 1986 **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 **Bioproducts and Bioprocesses** Armin Fiechter, Hirosuke Okada, Robert D. Tanner, 2012-12-06 The Japanese biotechnology community has developed a unique system of scientific bilateral communications at the international level It consists of closed seminars where a restricted number of speakers from Japan and a selected country are invited Thereby the actual state of biotechnology is visualized very effectively and valuable information exchanged during the discussions and personal contacts As a result strong relationships between several European and American countries have been built up during recent years and numerous colleagues from abroad have improved their knowledge of Japanese science economy and culture The present volume reports on an American Japanese meeting held in Moriyama which is situated on the lovely Lake Biwa in Japan The well prepared and efficiently organized event covered the major aspects of bioprocess engineering including animal and plant cell culture biocatalysts downstream processing sensor and bioprocess control as well as genetic engineering Altogether a broad spectrum indicating the strengths and weaknesses of the current efforts being made for the improvement of process technology and the search for new products *Separation, Recovery, and Purification in Biotechnology* Juan A. Asenjo, American Chemical Society. Meeting, 1986 *Protein Purification Techniques* Simon Roe, 2001-01-25 Proteins are an integral part of molecular and cellular structure and function and are probably the most purified type of biological molecule In order to elucidate the structure and function of any protein it is first necessary to purify it Protein purification techniques have evolved over the past ten years with improvements in equipment control automation and separation materials and the introduction of new techniques such as affinity membranes and expanded beds These developments have reduced the workload involved in protein purification but there is still a need to consider how unit operations linked together to form a purification strategy which can be scaled up if necessary The two Practical Approach books on protein purification have

therefore been thoroughly updated and rewritten where necessary The core of both books is the provision of detailed practical guidelines aimed particularly at laboratory scale purification Information on scale up considerations is given where appropriate The books are not comprehensive but do cover the major laboratory techniques and common sources of protein Protein Purification Techniques focuses on unit operations and analytical techniques It starts with an overview of purification strategy and then covers initial extraction and clarification techniques The rest of the book concentrates on different purification methods with the emphasis being on chromatography The final chapter considers general scale up considerations Protein Purification Applications describes purification strategies from common sources mammalian cell culture microbial cell culture milk animal tissue and plant tissue It also includes chapters on purification of inclusion bodies fusion proteins and purification for crystallography A purification strategy that can produce a highly pure single protein from a crude mixture of proteins carbohydrates lipids and cell debris to is a work of art to be admired These books available individually or as a set are designed to give the laboratory worker the information needed to undertake the challenge of designing such a strategy

Drug Biotechnology Regulation Y. Chiu,1991-01-07 An examination of the relation between biopharmaceutical development and governmental regulation focusing on the present state of collective knowledge of biotechnological practitioners including the identification of the scientific basis on regulatory requirements in the field as well as ways in which the Biotechnology in Agriculture, 1986-May 1992 Charles N. Bebee,1992

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

Separation Processes in Biotechnology Juan A. Asenjo,2020-08-26 Edited to avoid duplication and favor comprehensiveness 20 contributors detail the recovery separation and purification operations of bioprocess technology Individual chapters in this classic yet still highly relevant work emphasize concepts that are becoming more and more important when applied to the large scale versions of techniques that are considered well established Aside from fully discussing processes Separation Processes in Biotechnology includes sections on concentration separation and operation purification operations and product release and recovery It also discusses plant operation and equipment and delves into economic considerations

Extractive Bioconversions B. Mattiasson,2021-07-28 Contributors from European and US universities and corporations review recent developments in the integration of downstream processing and bioconversion describing their experience with many separation technologies including some still in the

experimental stage The topics include the construction **Bibliographies and Literature of Agriculture** ,1978

Biochemical Engineering and Biotechnology Handbook Bernard Atkinson,Ferda Mavituna,1991 **Frontiers in Bioprocessing II** Paul Todd,Subhas K. Sikdar,Milan Bier,1992 Frontiers in bioprocessing an assessments the role of protein crystals in biotechnology and industry a multidisciplinary approach to protein engineering free proteins synthesis bioreactor recombination in replicating RNA enantioselective enzymatic synthesis of prostaglandin synthons in multiphase reaction media design and synthesis of a peptide having chymotrypsin like catalytic activity biosensor and in situ measurement systems fiber optic sensors using raman and surface enhanced raman spectroscopy non invasive spectroscopic monitoring of a bioprocess in situ on line optical fiber sensor for fluorescence monitoring in bioreactor fiber optic biosensors incorporating sustained release of reagents peroxide sensors pH shift sensor Cell culture systems bioreactor engineering and control bioseparations scaleup emerging technologies in bioseparations **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

Comprehensive Biotechnology ,2019-07-17 *Comprehensive Biotechnology Third Edition Six Volume Set* unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science *Annals of the New York Academy of Sciences* Thomas Lincoln Casey,Gilbert Van Ingen,Charles Lane Poor,Edmund Otis Hovey,Ralph Winfred Tower,1991

Bioreactor Systems and Effects R. F. Bliem,1991 *Recombinant DNA Technology I* Aleš Prokop,Rakesh K. Bajpai,1991

This volume contains 46 papers the proceedings of a conference sponsored by the Engineering Foundation in June 1990 The research of geneticists molecular biologists biochemists and cell biologists involved in cloning and cell culturing is integrated with reports from technologists and engineers in large scale bioprocessing manufacturing and facility design There are sections on cloning optimisation of gene expression protein recovery and purification bio reactor design monitoring control and scale up

Mathematical Modeling and Scale-Up of Liquid Chromatography Tingyue Gu, 2015-04-06 Tingyue Gu s second edition provides a comprehensive set of nonlinear multicomponent liquid chromatography LC models for various forms of LC such as adsorption size exclusion ion exchange reversed phase affinity isocratic gradient elution and axial radial flow LC Much has advanced since the first edition of this book and the author s software described here is now used for teaching and research in 32 different countries This book comes together with a complete software package with graphical user interface for personal computers offered free for academic applications Additionally this book provides detailed methods for parameter estimation of mass transfer coefficients bed voidage particle porosity and isotherms The author gives examples of how to use the software for predicitions and scale up In contrast to the first edition authors do not need to deal with complicated math Instead they focus on how to obtain a few parameters for simulation and how to compare simulation results with experimental data After reading the detailed descriptions in the book a reader is able to use the simulation software to investigate chromatographic behavior without doing actual experiments This book is aimed at readers who are interested in learning about LC behaviors and at those who want to scale up LC for preparative and large scale applications Both academic personnel and industrial practitioners can benefit from the use of the book This new edition includes New models and software for pellicular cored beads in liquid chromatography Introduction of user friendly software with graphical user interface Detailed descriptions on how to use the software Step by step instructions on parameter estimation for the models New mass transfer correlations for parameter estimation Experimental methods for parameter estimation Several actual examples using the model for product development and scale up Updated literature review

Revue
roumaine de biochimie , 1988

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