

Protein Purification: Design and Scale Up of Downstream Processing

Wheelwright, Scott M.

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Protein Purification Design And Scale Up Of Downstream Processing

Peipei Pang



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Protein Purification Scott M. Wheelwright, 1993-12-16 A comprehensive introduction to the art and science used by the biochemist and process engineer in the design and optimization of large scale protein purification processes Covers the basics of proteins properties the unit operations involved in protein purification as well as important related issues of process design integration with upstream operations cost and timing to market Includes an abundance of figures and tables

Handbook of Downstream Processing E. Goldberg, 2012-12-06 The last two decades have seen a phenomenal growth of the field of genetic or biochemical engineering and have witnessed the development and ultimately marketing of a variety of products typically through the manipulation and growth of different types of microorganisms followed by the recovery and purification of the associated products The engineers and biotechnologists who are involved in the full scale process design of such facilities must be familiar with the variety of unit operations and equipment and the applicable regulatory requirements This book describes current commercial practice and will be useful to those engineers working in this field in the design construction and operation of pharmaceutical and biotechnology plants It will be of help to the chemical or pharmaceutical engineer who is developing a plant design and who faces issues such as Should the process be batch or continuous or a combination of batch and continuous How should the optimum process design be developed Should one employ a new revolutionary separation which could be potentially difficult to validate or use accepted technology which involves less risk Should the process be run with ingredients formulated from water for injection deionized water or even filtered tap water Should any of the separations be run in cold rooms or in glycol jacketed lines to minimize microbial growth where sterilization is not possible Should the process equipment and lines be designed to be sterilized in place cleaned in place or should every piece be broken down cleaned and autoclaved after every turn

Scale-Up and Optimization in Preparative Chromatography Anurag Rathore, Ajoy Velayudhan, 2002-09-26 This text offers fundamental analysis of the underlying physicochemical principles to select optimal modes of interaction design efficient separations and increase productivity in the manufacture of novel therapeutics and pharmaceuticals

Handbook of Methods and Instrumentation in Separation Science, 2009-11-11 Handbook of Methods and Instrumentation in Separation Science Volume 1 provides concise overviews and summaries of the main methods used for separation It is based on the Encyclopedia of Separation Science The handbook focuses on the principles of methods and instrumentation It provides general concepts concerning the subject matter it does not present specific procedures This volume discusses the separation processes including affinity methods analytical ultracentrifugation centrifugation chromatography and use of decanter centrifuge and dye Each methodology is defined and compared with other separation processes It also provides specific techniques principles and theories concerning each process Furthermore the handbook presents the applications benefits and validation of the processes described in this book This handbook is an excellent reference for biomedical researchers environmental and production

chemists flavor and fragrance technologists food and beverage technologists academic and industrial librarians and nuclear researchers Students and novices will also find this handbook useful for practice and learning One stop source for information on separation methods General overviews for quick orientation Ease of use for finding results fast Expert coverage of major separation methods Coverage of techniques for all sizes of samples pico level to kilo level

Biotechnology and Biopharmaceutical Manufacturing, Processing, and Preservation Kenneth E. Avis, Vincent L. Wu, 2020-08-13 In this unique book experts describe practices applicable to the large scale processing of biotechnological products Beginning with processing and bulk storage preservation techniques the book provides strategies for improving efficiency of process campaigns of multiple products and manufacturing facilities for such processing techniques Large scale chromatography for the purification of biomolecules in manufacturing and lyophilization of protein pharmaceuticals are discussed Includes a case study on blow fill seal processing technology and a chapter on economic and cost factors for bioprocess engineering

Bioprocess Engineering Principles Pauline M. Doran, 2012-04-23 This welcome new edition discusses bioprocess engineering from the perspective of biology students It includes a great deal of new material and has been extensively revised and expanded These updates strengthen the book and maintain its position as the book of choice for senior undergraduates and graduates seeking to move from biochemistry microbiology molecular biology to bioprocess engineering All chapters thoroughly revised for current developments with over 200 pgs of new material including significant new content in Metabolic Engineering Sustainable Bioprocessing Membrane Filtration Turbulence and Impeller Design Downstream Processing Oxygen Transfer Systems Over 150 new problems and worked examples More than 100 new illustrations

Protein Chromatography Sinéad T Loughran, John Joseph Milne, 2023-08-30 This third edition expands on the previous editions with updated and new chapters on protein chromatography Chapters detail protein stability and storage avoiding proteolysis protein quantitation methods generation and purification of recombinant proteins recombinant antibody production and the tagging of proteins Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Protein Chromatography Methods and Protocols Third Edition aims to provide commonly used methods and new approaches to help both new researchers and experts expand their knowledge

Biosimilars and Interchangeable Biologics Sarfaraz K. Niazi, 2016-01-05 What s the Deal with Biosimilars Biosimilars are gaining momentum as new protein therapeutic candidates that can help fill a vital need in the healthcare industry The biological drugs are produced by recombinant DNA technology that allows for large scale production and an overall reduction time in costs and development Part of a two volume set th

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fermentation of tropical products bio conversion of waste from tropical materials and effluent treatment problems

Preparative Chromatography for Separation of Proteins Arne Staby, Anurag S. Rathore, Satinder Ahuja, 2017-03-06

Preparative Chromatography for Separation of Proteins addresses a wide range of modeling techniques strategies and case studies of industrial separation of proteins and peptides Covers broad aspects of preparative chromatography with a unique combination of academic and industrial perspectives Presents Combines modeling with compliance using of Quality by Design QbD approaches including modeling Features a variety of chromatographic case studies not readily accessible to the general public Represents an essential reference resource for academic industrial and pharmaceutical researchers

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

Pharmaceutical Biotechnology

Daan J. A. Crommelin, Robert D. Sindelar, Bernd Meibohm, 2013-10-22 This introductory text explains both the basic science and the applications of biotechnology derived pharmaceuticals with special emphasis on their clinical use It serves as a complete one stop source for undergraduate graduate pharmacists pharmaceutical science students and for those in the pharmaceutical industry The Fourth Edition will completely update the previous edition and will also include additional coverage on the newer approaches such as oligonucleotides siRNA gene therapy and nanotech

Protein Liquid

Chromatography M. Kastner, 2000 Protein Liquid Chromatography is a handbook style guide to liquid chromatography as a tool for isolating and purifying proteins consisting of 25 individual chapters divided into three parts Part A covers commonly used classic modes of chromatography such as ion exchange size exclusion and reversed phase Part B deals with various target protein classes such as membrane proteins recombinant proteins and glycoproteins and Part C looks at various miscellaneous related topics including coupling reaction buffer solution additives and software The text as a whole can be viewed as a systematic survey of available methods and how best to use them but also attempts to provide an exhaustive coverage of each facet How to solve a specific problem using a chosen method is the overall essence of the volume The principle philosophy of this compilation is that practical application is everything therefore both classical and modern methods are presented in detail with examples involving conventional medium and high pressure techniques Over exposure to history concept and theory has deliberately been avoided The reader will find a wealth of tips and tricks from users for users including advice on the advantages and disadvantages of each method Easy to read sections on Getting started now

and Where to go from here attempt to provide hands on fool proof detailed practical procedures with complete and even standard model runs for any scientist or technician at work in this area *Proceedings of the Twenty-Fifth Symposium on Biotechnology for Fuels and Chemicals Held May 4-7, 2003, in Breckenridge, CO* Mark Finkelstein, Brian H. Davison, 2004-05-15 State of the art research by leading experts Advanced feedstock production and processing Enzyme and microbial biocatalysis Bioprocess research and development Commercialization of biobased products **Manufacturing of Pharmaceutical Proteins** Stefan Behme, 2021-12-09 An expert single volume overview of the core processes and disciplines of biopharmaceutical production In the newly revised Third Edition of *Manufacturing of Pharmaceutical Proteins From Technology to Economy* renowned chemical engineer Dr Stefan Behme delivers a comprehensive text covering all aspects of biopharmaceutical manufacturing including legal and regulatory considerations production facility design quality assurance supply chain management emerging market regulations and cost control Suitable as both a reference book and a training resource this book extensively explores the impact of digital transformation on pharmaceutical protein manufacturers and includes a brand new chapter dedicated to digitalization The distinguished author provides readers with practical understanding of the terminology and principles driving the various fields involved with biotechnological production including operations legal finance and IT He also offers A thorough introduction to biopharmaceutical production including value creation product types and biological basics Comprehensive explorations of the technology of the manufacturing process and analytics Practical discussions of pharmacology and drug safety quality assurance and pharmaceutical law In depth examinations of pharmaceutical protein production facilities including facility design and the planning construction and commissioning of a manufacturing plant Perfect for biotechnologists working in the pharmaceutical industry *Manufacturing of Pharmaceutical Proteins From Technology to Economy* will also earn a place in the libraries of pharmaceutical engineers seeking a one stop reference for all aspects of biopharmaceutical production **Food Science and Food Biotechnology** Gustavo F. Gutierrez-Lopez, 2003-02-26 This groundbreaking book provides a balanced and organized discussion of the interactions of food science and biotechnology at the molecular and industrial levels Carefully selected and reviewed contributions stress the aspects of modern bioprocessing analysis and quality control that are common to both food science and biotechnology The detail *Biochromatography* M. A. Vijayalakshmi, 2002-02-14 The field of bioseparation and biochromatography in particular is advancing very rapidly as our knowledge of the properties of molecules and atomic forces increases This volume covers the basic principles of biochromatography in detail It assesses different techniques and includes a large number of applications providing the reader with a mult *Bioseparations Science and Engineering* Roger G. Harrison, Paul Todd, Scott R. Rudge, Demetri P. Petrides, 2015 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 *Bioprocess Engineering Principles* Ross Carlson, Kate

Morrissey, Pauline M. Doran, 2024-09-27 *Bioprocess Engineering Principles Third Edition* provides a solid introduction to bioprocess engineering for students with a limited engineering background. The book explains process analysis from an engineering perspective using worked examples and problems that relate to biological systems. Application of engineering concepts is illustrated in areas of modern biotechnology such as recombinant protein production, bioremediation, biofuels, drug development, and tissue engineering, as well as microbial fermentation. With new and expanded material, this remains the book of choice for students seeking to move into bioprocess engineering. Includes more than 350 problems that demonstrate how fundamental principles are applied in areas such as biofuels, bioplastics, bioremediation, tissue engineering, site-directed mutagenesis, recombinant protein production, and drug development, as well as for traditional microbial fermentation. Provides in-depth treatment of fluid flow, turbulence, mixing, and impeller design, reflecting recent advances in our understanding of mixing processes and their importance in determining the performance of cell cultures. Focuses on underlying scientific and engineering principles rather than on specific biotechnology applications, providing a sound basis for teaching bioprocess engineering. Presents new or expanded coverage of such topics as enzyme kinetics, downstream processing, disposable reactors, genetic engineering, and the technology of fermentation.

Bioseparation Engineering I. Endo, T. Nagamune, S. Kato, T. Yonemoto, 2000-03-17 The bioseparation engineering of today includes downstream process engineering such as waste water treatment 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 sense 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.

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