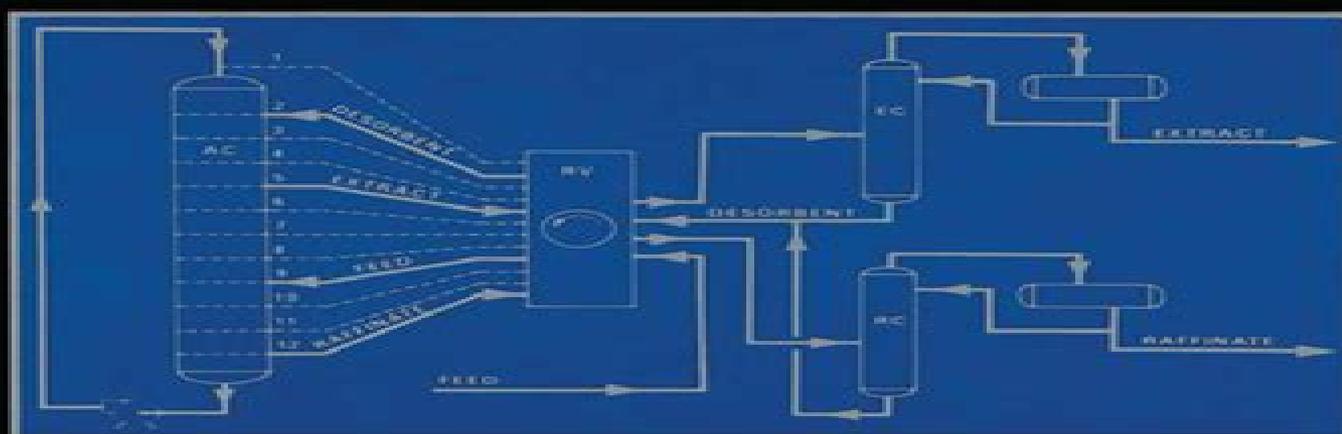


Preparative and Production Scale Chromatography



edited by
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P. E. Barker

Preparative And Production Scale Chromatography

Thomas Griffiths



Preparative And Production Scale Chromatography:

Preparative and Production Scale Chromatography G. Ganetsos, P.E. Barker, 1992-09-16 Describes the latest developments in the scaling up and application of chromatographic operations and demonstrates that production scale chromatography is a powerful and invaluable separation process The book covers every important process design and reveals actual immediately applicable techniques and is designed to appeal to design chemical biochemical and research and development engineers process development managers bioprocess technologists analytical and clinical chemists and biochemists pharmacists and upper level undergraduate graduate and continuing education students in these disciplines

Preparative Scale Chromatography Eli Grushka, 1988-10-28 Discusses a model for the propagation of a finite concentration zone in a chromatographic column for the case of a single component sample and explores operating conditions of ion exchange chromatography for the production of albumin from bovine serum and plasma Focus is on theoretical instrument

Scale-Up and Optimization in Preparative Chromatography Anurag Rathore, Ajoy Velayudhan, 2002-09-26 Presenting guidelines to predict and improve separation system performance this book contains numerous case studies illustrating the practice of scale up principles in process development It offers solutions to limitations that occur in real world purification schemes methods to model optimize and characterize nonlinear separation processes data comparisons from all stages of production and industrial separation schemes for products such as synthetic molecules antibody fragments IgG growth factors and plasmid DNA The book covers external constraints separation economics correlations for transport and kinetic phenomena and the configuration and parameters of column design

Chemical Engineering Volume 2 J H Harker, J R Backhurst, J.F. Richardson, 2013-10-22 Chemical Engineering Volume 2 covers the properties of particulate systems including the character of individual particles and their behaviour in fluids Sedimentation of particles both singly and at high concentrations flow in packed and fluidised beds and filtration are then examined The latter part of the book deals with separation processes such as distillation and gas absorption which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1 In conclusion several techniques of growing importance adsorption ion exchange chromatographic and membrane separations and process intensification are described A logical progression of chemical engineering concepts volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross referenced Reflects the growth in complexity and stature of chemical engineering over the last few years Supported with further reading at the end of each chapter and graded problems at the end of the book

Drug Stereochemistry Krzysztof Jozwiak, W. J. Lough, Irving W. Wainer, 2012-04-23 Drug Stereochemistry Analytical Methods and Pharmacology Third Edition covers all aspects of chiral drugs from academic governmental industrial and clinical perspectives reflecting the many advances in techniques and methodology Topics include The use of enzymes in the synthesis and resolution of enantiometrically pure compounds in drug disc

Bioseparation and Bioprocessing, Volume I: Biochromatography - Membrane Separations - Modeling - Validation. Volume II: Processing - Quality and Characterisation - Economics, Safety and Hygiene Ganapathy Subramanian, G. Subramanian, 1998 Rapid developments in biotechnology create a demand for practical up to date reviews written by and for experts in industry This compact handbook provides all relevant up to date information on important bioseparation and bioprocessing techniques that are actively applied in the biotechnology industries The handbook presents an applications orientated overview on case studies and general strategies for quality control and characterization detailed guidelines on developing economic and technically feasible bioseparation schemes strategies and methods for intracellular bioproduct release chromatographic and membrane downstream processes used in biotechnology applications of modern non invasive methods such as neural networks for on line estimation and control of fermentation variables on an industrial scale a practical commercially relevant guide to biosafety and many more aspects which are indispensable for present and future industrial success

Downstream Industrial Biotechnology Michael C. Flickinger, 2013-03-12 DOWNSTREAM INDUSTRIAL BIOTECHNOLOGY An affordable easily accessible desk reference on biomanufacturing focused on downstream recovery and purification Advances in the fundamental knowledge surrounding biotechnology novel materials and advanced engineering approaches continue to be translated into bioprocesses that bring new products to market at a significantly faster pace than most other industries Industrial scale biotechnology and new manufacturing methods are revolutionizing medicine environmental monitoring and remediation consumer products food production agriculture and forestry and continue to be a major area of research The downstream stage in industrial biotechnology refers to recovery isolation and purification of the microbial products from cell debris processing medium and contaminating biomolecules from the upstream process into a finished product such as biopharmaceuticals and vaccines Downstream process design has the greatest impact on overall biomanufacturing cost because not only does the biochemistry of different products e g peptides proteins hormones antibiotics and complex antigens dictate different methods for the isolation and purification of these products but contaminating byproducts can also reduce overall process yield and may have serious consequences on clinical safety and efficacy Therefore downstream separation scientists and engineers are continually seeking to eliminate or combine unit operations to minimize the number of process steps in order to maximize product recovery at a specified concentration and purity Based on Wiley's Encyclopedia of Industrial Biotechnology Bioprocess Bioseparation and Cell Technology this volume features fifty articles that provide information on down stream recovery of cells and protein capture process development and facility design equipment PAT in downstream processes downstream cGMP operations and regulatory compliance It covers Cell wall disruption and lysis Cell recovery by centrifugation and filtration Large scale protein chromatography Scale down of biopharmaceutical purification operations Lipopolysaccharide removal Porous media in biotechnology Equipment used in industrial protein purification Affinity chromatography Antibody purification monoclonal and polyclonal Protein

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Comprehensive Organic Synthesis, 2014-02-14 The second edition of *Comprehensive Organic Synthesis* winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers builds upon the highly respected first edition in drawing together the new common themes that underlie the many disparate areas of organic chemistry These themes support effective and efficient synthetic strategies thus providing a comprehensive overview of this important discipline Fully revised and updated this new set forms an essential reference work for all those seeking information on the solution of synthetic problems whether they are experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find *Comprehensive Organic Synthesis Second Edition Nine Volume Set* an invaluable source providing an authoritative overview of core concepts Winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers Contains more than 170 articles across nine volumes including detailed analysis of core topics such as bonds oxidation and reduction Includes more than 10 000 schemes and images Fully revised and updated important growth areas including combinatorial chemistry new technological industrial and green chemistry developments are covered extensively

Continuous Biomanufacturing Ganapathy Subramanian, 2017-12-26 This is the most comprehensive treatise of this topic available providing invaluable information on the technological and economic benefits to be gained from implementing continuous processes in the biopharmaceutical industry Top experts from industry and academia cover the latest technical developments in the field describing the use of single use technologies alongside perfusion production platforms and downstream operations Special emphasis is given to process control and monitoring including such topics as quality by design and automation The book is supplemented by case studies that highlight the enormous potential of continuous manufacturing for biopharmaceutical production facilities

Downstream Processing Biosurfactants Carotenoids Armin Fiechter, 1995-11-15 *Stochastic Simulation of Separation Systems* Peter Edward Krouskop, 2002 *Ullmann's Encyclopedia of Industrial Chemistry*, 2003

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Emerging Separation and Separative Reaction Technologies for Process Waste Reduction Peter P. Radecki, 1999 Findings from a workshop on process waste reduction via separation technologies and separative reactors The book focuses primarily on adsorption and membrane separation technologies outlines the fundamental concepts important to each of the technologies describes state of the art processes using technologies and highlights broad areas of need for each

technology *Chemical Process Control-VI* American Institute of Chemical Engineers,2002 **Peptides** Robert S. Hodges,J.A. Smith,1994-06-30 This unique reference book contains 372 articles selected from 762 plenary lectures workshops and poster presentations made during the Thirteenth American Peptide Symposium held in Edmonton Alberta Canada The book opens with Nobel Laureate Dr Bruce Merrifield s Remarks on Peptide Chemistry which focus on past scientists and their contributions of peptide chemistry in all aspects of biology and Dr Victor Hruby s Pierce Award Lecture on designing peptides pseudopeptides and peptidomimetics to understand the relationship between structure and biology activity The contributions are grouped into 14 sections Synthetic and Analytical Methods Peptide Mimetics Glycopeptides Lipopeptides Peptide Hormones Neuropeptides Peptide Inhibitors Peptide Receptor Interactions Peptide Vaccines and Immunology Conformational Analysis Peptide Pharmaceuticals Diagnostics and Peptide Delivery Computational Biochemistry Peptide Macromolecular Interactions Peptide Libraries De novo Design of Peptides and Proteins and three Workshops Approaches and Advances in Peptide Synthesis Purification and Analysis An Introduction to NMR Spectroscopy of Peptides An Introduction to Energy Minimization Molecular Dynamics Molecular Modelling and Conformational Analysis of Peptides This 1200 page compendium of current research from both academic and industrial laboratories demonstrates the exponential growth of the use of peptides in the diverse fields of medical science **Encyclopedia of Bioprocess Technology** Michael C. Flickinger,1999 *The Encyclopedia of Bioprocess Technology* Michael C. Flickinger,Stephen W. Drew,1999 **Chemical Process Control-VI** James Blake Rawlings,Babatunde Ayodeji Ogunnaike,John W. Eaton,2002 Electronic version of the proceedings and papers of the conference along with an ISO9660 file system with Rock Ridge attributes

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