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Preparative Chromatography

of Fine Chemicals and Pharmaceutical Agents



Preparative Chromatography Of Fine Chemicals And Pharmaceutical Agents

Yicheng Fang



Preparative Chromatography Of Fine Chemicals And Pharmaceutical Agents:

Preparative Chromatography H. Schmidt-Traub, 2006-03-06 This interdisciplinary approach combines the chemistry and engineering involved to describe the conception and improvement of chromatographic processes The book covers recent developments in preparative chromatographic processes for the separation of smaller molecules using standard laboratory equipment as well as the detailed conception of industrial chemical plants Following an introductory section on the history of chromatography the current state of research and the design of chromatographic processes the book goes on to define the general terminology There then follow sections on solid materials and packed columns process concepts Final chapters on modeling and determination of model parameters the design and optimization of preparative chromatographic processes and chromatographic reactors allow for the optimum selection of chromatographic systems Essential for chemists and engineers working in the chemicals and pharmaceutical industries as well as for food technologies due to the interdisciplinary nature of these processes *Integrated Reaction and Separation Operations* Henner Schmidt-Traub, Andrzej Gorak, 2007-12-29

Economic needs as well as ecological demands are major driving forces in improving chemical processes and plants To meet these goals processes have to be intensified in order to get products of higher quality to increase yield by reducing or even suppressing by products and to minimise energy consumption A preferred principle for such intensifications is process tegration especially integration of reaction and separation operations Scientific research in this field has been boosted by certain extremely successful examples like the Eastman Kodak process for methyl acetate or the MTBE process which are milestones for this method In 2002 the German Research Foundation defined process integration as one of the major search topics for the next decade In 1998 the Department of Biochemical and Chemical Engineering at the University of Dortmund decided to pool its activities for concerted efforts in process integration and to form a joint research cluster Our interest was to find out the general challenges as well as obstacles of integrated processes and to work out methods for their design and valuation Soon it became clear that theoretical work only cannot give reasonable answers **Gas Chromatography** Colin

Poole, 2012-06-19 A single source of authoritative information on all aspects of the practice of modern gas chromatography from theory to methods to selected applications It also provides access to core data for practical work comparison of results and decision making and facilitates the search for sources in related areas of study *Analytical Separation Science, 5*

Volume Set Jared Anderson, Alain Berthod, Veronica Pino, Apryll M. Stalcup, 2016-02-29 Endlich ein Forschungsleitfaden für Wissenschaftler des Fachgebiets die neue Methoden entwickeln oder einsetzen Dieses Handbuch umfasst fünf thematische Bände und bietet damit einen umfassenden Überblick über das Fachgebiet Erläutert werden Grundlagen die Methodenentwicklung und hochkarätige Anwendungen für alle wichtigen Analyseverfahren darunter chromatische Verfahren Techniken in den Bereichen Elektromigration und Membranen Dieses Referenzwerk umfasst ein breites Spektrum und legt den Schwerpunkt auf Entwicklungen für die Zukunft Damit ist es ein Muss für Forscher und eine wertvolle Wissensquelle für Studenten im

Hauptstudium und Studienabsolventen **Comprehensive Chirality** ,2012-12-31 Although many books exist on the subject of chiral chemistry they only briefly cover chiral synthesis and analysis as a minor part of a larger work to date there are none that pull together the background information and latest advances in one comprehensive reference work Comprehensive Chirality provides a complete overview of the field and includes chiral research relevant to synthesis analytic chemistry catalysis and pharmaceuticals The individual chapters in each of the 9 volumes provide an in depth review and collection of references on definition technology applications and a guide links to the related literature Whether in an Academic or Corporate setting these chapters will form an invaluable resource for advanced students researchers new to an area and those who need further background or answers to a particular problem particularly in the development of drugs Chirality research today is a central theme in chemistry and biology and is growing in importance across a number of disciplinary boundaries These studies do not always share a unique identifying factor or subject themselves to clear and concise definitions This work unites the different areas of research and allows anyone working or researching in chiral chemistry to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of chirality counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews Comprehensive Chirality fills this vacuum and can be considered the definitive work It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research and or for solving problems Chief Editors Hisashi Yamamoto University of Chicago and Erick Carreira ETH Z rich have assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource **Chiral Separation Techniques** Ganapathy Subramanian,2008-01-08 Thoroughly revised with either entirely new or completely updated contents this is a practical manual for the small and large scale preparation of enantiomerically pure products The result is a vital resource for meeting the highest purity standards in the manufacture of chiral pharmaceuticals food additives and related compounds All the approaches covered here are highly relevant to modern manufacturing and quality control schemes in the pharmaceutical and biotech industries addressing the increasingly important issue of drug safety in view of tougher regulatory standards worldwide **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 **Liquid Chromatography** M. Kaspereit, A.

Seidel-Morgenstern, 2013-01-08 This chapter describes rivaling operating modes applied industrially in preparative chromatography After recapitulating the basic features of the workhorse and reference in the field namely isocratic batch elution at first more sophisticated concepts are presented that offer additional degrees of freedom but maintain the discontinuous character of the separation process Subsequently process options are described that possess the potential to perform the separations continuously Hereby mainly the most successful multicolumn concepts are explained which are based on realizing highly efficient countercurrent transport processes Finally the important aspect is addressed how different process alternatives can be evaluated and compared quantitatively Green Techniques for Organic Synthesis and Medicinal Chemistry Wei Zhang, Berkeley W. Cue, 2012-05-10 An updated overview of the rapidly developing field of green engineering techniques for organic synthesis and medicinal chemistry Green chemistry remains a high priority in modern organic synthesis and pharmaceutical R D with important environmental and economic implications This book presents comprehensive coverage of green chemistry techniques for organic and medicinal chemistry applications summarizing the available new technologies analyzing each technique's features and green chemistry characteristics and providing examples to demonstrate applications for green organic synthesis and medicinal chemistry The extensively revised edition of Green Techniques for Organic Synthesis and Medicinal Chemistry includes 7 entirely new chapters on topics including green chemistry and innovation green chemistry metrics green chemistry and biological drugs and the business case for green chemistry in the generic pharmaceutical industry It is divided into 4 parts The first part introduces readers to the concepts of green chemistry and green engineering global environmental regulations green analytical chemistry green solvents and green chemistry metrics The other three sections cover green catalysis green synthetic techniques and green techniques and strategies in the pharmaceutical industry Includes more than 30% new and updated material plus seven brand new chapters Edited by highly regarded experts in the field Berkeley Cue is one of the fathers of Green Chemistry in Pharma with backgrounds in academia and industry Brings together a team of international authors from academia industry government agencies and consultancies including John Warner one of the founders of the field of Green Chemistry Green Techniques for

Organic Synthesis and Medicinal Chemistry Second Edition is an essential resource on green chemistry technologies for academic researchers R D professionals and students working in organic chemistry and medicinal chemistry *Signposts to Chiral Drugs* Vitomir Sunjic, Michael Parnham, 2011-05-10 Highlighting 15 selected chiral structures which represent candidate or marketed drugs and their chemical syntheses the authors acquaint the reader with the fascinating achievements of synthetic and medicinal chemistry The book starts with an introduction treating the discovery and development of a new drug entity Each of the 15 subsequent chapters presents one of the target structures and begins with a description of its biological profile as well as any known molecular mechanisms of action underlining the importance of its structural and stereochemical features This section is followed by detailed discussions of synthetic approaches to the chiral target structure highlighting creative ideas the scaling up of laboratory methods and their replacement by efficient modern technologies for large scale production Nearly 60 synthetic reactions most of them stereoselective catalytic or biocatalytic as well as chiral separating methodologies are included in the book Vitomir Sunjic and Michael J Parnham provide an invaluable source of information for scientists in academia and the pharmaceutical industry who are actively engaged in the interdisciplinary development of new drugs as well as for advanced students in chemistry and related fields **Continuous**

Biomanufacturing Ganapathy Subramanian, 2017-09-12 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 **Temperature-Programmed Gas Chromatography** Leonid M.

Blumberg, 2011-09-22 This book provides a comprehensive up to date overview of temperature programmed gas chromatography GC The first part of the book introduces the reader to the basics concepts of GC as well as the key properties of GC columns The second part describes the mathematical and physical background of GC In the third part different aspects in the formation of a chromatogram are discussed including retention times peak spacing and peak widths An invaluable reference for any chromatographer and analytical chemist it provides all the answers to questions like At what temperature does a solute elute in a temperature programmed analysis What is the value of the retention factor of eluting solute How wide are the peaks How large is the time distance between two peaks How do all these parameters depend on the heating rate **Handbook of HPLC** Danilo Corradini, 2016-04-19 High performance liquid chromatography HPLC is one of the most widespread analytical and preparative scale separation techniques used for both scientific investigations and industrial and biomedical analysis Now in its second edition this revised and updated version of the Handbook of HPLC

examines the new advances made in this field since the Engineering Aspects of Food Biotechnology Jose A. Teixeira, Antonio A. Vicente, 2013-08-29 Food biotechnology's typical developments and applications have occurred in the fields of genetics and in enzyme and cell based biological processes with the goal of producing and improving food ingredients and foods themselves While these developments and applications are usually well reported in terms of the underlying science there is a clear lack of information on the engineering aspects of such biotechnology based food processes Filling this gap Engineering Aspects of Food Biotechnology provides a comprehensive review of those aspects from the development of food processes and products to the most important unit operations implied in food biotechnological processes also including food quality control and waste management The book focuses on the use of biotechnology for the production of ingredients to be used in the food industry It addresses two relevant issues consumer's awareness of the relation between nutrition and good health and the importance of environmental sustainability in the food chain i.e production of polymers and in vitro meat A chapter on the application of process analytical technology highlights the importance of this tool for satisfying the increasingly sophisticated and strict policies for quality control and monitoring of specific process phases The book includes a detailed presentation of relevant unit operations developed to extract/purify the ingredients of biotechnological origin intended for food applications In addition to examining the contributions of biotechnology to producing and improving food ingredients the book provides a concise description of the role biotechnology plays in adding value to food processing by products including post harvest losses in relevant industries of the food sector It builds a foundation for further research and development in the food processing industry Process Scale Purification of Antibodies Uwe Gottschalk, 2017-03-02 Promoting a continued and much needed renaissance in biopharmaceutical manufacturing this book covers the different strategies and assembles top tier technology experts to address the challenges of antibody purification Updates existing topics and adds new ones that include purification of antibodies produced in novel production systems novel separation technologies novel antibody formats and alternative scaffolds and strategies for ton scale manufacturing Presents new and updated discussions of different purification technologies focusing on how they can address the capacity crunch in antibody purification Emphasizes antibodies and innovative chromatography methods for processing **Microspheres and Microcapsules in Biotechnology** Guanghui Ma, Zhi-Guo Su, 2013-01-29 Microspheres and microcapsules have very broad applications in various fields especially in those of biotechnology and biopharmaceuticals as targeting drug delivery carriers separation media for protein peptide DNA and so forth It is a big challenge to design and prepare microspheres and microcapsules of different sizes and structures from various materials and develop new techniques This book focuses on new microspheres and microcapsules specifically designed and prepared for application in the fields of biotechnology and biopharmaceuticals involving bioreaction bioseparation bioformulation biodetection and other new bioapplications It provides a deep knowledge about the principles of design preparation methods and application results of new microspheres and

microcapsules for each bioapplication area The book also presents problems that need to be studied further and comments on the future prospects of microspheres and microcapsules

Introduction to Modern Liquid Chromatography Lloyd R. Snyder, Joseph J. Kirkland, John W. Dolan, 2011-09-20 The latest edition of the authoritative reference to HPLC High performance liquid chromatography HPLC is today the leading technique for chemical analysis and related applications with an ability to separate analyze and or purify virtually any sample Snyder and Kirkland's *Introduction to Modern Liquid Chromatography* has long represented the premier reference to HPLC This Third Edition with John Dolan as added coauthor addresses important improvements in columns and equipment as well as major advances in our understanding of HPLC separation our ability to solve problems that were troublesome in the past and the application of HPLC for new kinds of samples This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience The text begins by introducing the reader to HPLC its use in relation to other modern separation techniques and its history then leads into such specific topics as The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column the heart of the HPLC system Reversed phase separation normal phase chromatography gradient elution two dimensional separation and other techniques Computer simulation qualitative and quantitative analysis and method validation and quality control The separation of large molecules including both biological and synthetic polymers Chiral separations preparative separations and sample preparation Systematic development of HPLC separations new to this edition Troubleshooting tricks techniques and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users from novices to experts *Introduction to Modern Liquid Chromatography Third Edition* offers the most up to date comprehensive and accessible survey of HPLC methods and applications available

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 downstream 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 aggregation precipitation and crystallization Freeze drying of biopharmaceuticals Biopharmaceutical facility design and validation Pharmaceutical bioburden testing Regulatory requirements Ideal for graduate and advanced undergraduate courses on biomanufacturing biochemical engineering biopharmaceutical facility design biochemistry industrial microbiology gene expression technology and cell culture technology Downstream Industrial Biotechnology is also a highly recommended resource for industry professionals and libraries

Organic Chemistry from Retrosynthesis to Asymmetric Synthesis Vitomir Šunjić, Vesna Petrović Peroković, 2016-04-30 This book connects a retrosynthetic or disconnection approach with synthetic methods in the preparation of target molecules from simple achiral ones to complex chiral structures in the optically pure form Retrosynthetic considerations and asymmetric syntheses are presented as closely related topics often in the same chapter underlining the importance of retrosynthetic consideration of target molecules neglecting stereochemistry and equipping readers to overcome the difficulties they may encounter in the planning and experimental implementation of asymmetric syntheses This approach prepares students in advanced organic chemistry courses and in particular young scientists working at academic and industrial laboratories for independently solving synthetic problems and creating proposals for the synthesis of complex structures

Sorption Enhanced Reaction Processes Alirio Egidio Rodrigues, Luis Miguel Madeira, Yi-jiang Wu, Rui Faria, 2017-08-16 This book investigates the development of sorption enhanced reaction processes SERPs with detailed modelling and simulation design and operation of units SERPs are processes intensified by combining adsorption and reaction reaction and membranes or reaction adsorption membranes in a single unit in order to overcome thermodynamic limitations of conversion in reversible reactions The focus here is on gas phase and liquid phase processes involving different technologies including pressure swing adsorptive reactors membrane reactors and simulated moving bed reactors Emphasis is also given to presenting data and practical applications of SERP products Sorption Enhanced Reaction Processes provides undergraduate and graduate students of chemistry and chemical engineering researchers and industrial engineers with a clear path towards process development of SERP whatever the area of application

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