



# Preparative And Production Scale Chromatography

**G. Subramanian**



## **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

**The Essence of Chromatography** Colin F. Poole, 2002-12-05 The knowledge base of chromatography continued to expand throughout the 1990s owing to its many applications to problems of contemporary interest in industry life and environmental sciences Organizing this information into a single text for a diverse group of scientists has become increasingly difficult The present book stemmed from the desire to revise *Chromatography Today* written by the same author with Salwa K Poole and published in 1991 This title is considered to be one of the definitive texts on chromatography It was soon realized however that a simple revision would not provide the desired result of a contemporary picture of the practice of chromatography at the turn of the century The only workable solution was to start afresh maintaining the same general philosophy and concept for *Chromatography Today* where possible while creating essentially a new book The format of the new book is modular with extensive cross references to permit rapid location of related material using different separation concepts Important features are extensive tabulation of essential data for performing separations and an extensive bibliography to the most recent literature This title is intended as a suitable text for graduate level courses in the separation sciences and as a self study guide for professional chromatographers wishing to refresh their background in this rapidly expanding field The *Essence of Chromatography* presents a comprehensive survey of modern chromatography and is an effective replacement for *Chromatography Today* Comprehensive and authoritative coverage of chromatographic techniques Contains extensive coverage of recent literature on this subject Ideal text for graduates and suitable for professional chromatographers

*Principles and Practice of Modern Chromatographic Methods* Kevin Robards, Danielle Ryan, 2021-12-03 *Principles and Practice of Modern Chromatographic Methods* Second Edition takes a comprehensive unified approach in its presentation of chromatographic techniques Like the first edition the book provides a scientifically rigid but easy to follow presentation of chromatography concepts that begins with the purpose and intent of chromatographic theory the what and why that are left out of other books attempting to cover these principles This fully revised second edition brings the content up to date covering recent developments in several new sections and an additional chapter on composite methods New topics include sample profiling sample preparation sustainable green chemistry 2D chromatography miniaturization nano LC HILIC and more Contains thorough chapters that begin with an updated schematic overview and a

visual representation of the content Avoids the obfuscation of different terminologies and classification systems that are prevalent in the area such as the relationship between liquid chromatography and column chromatography Provides integrated and comprehensive topic coverage based on chromatographic bibliometrics and survey reports on the relative usage of chromatographic techniques

**Chromatographic Processes** Roger-Marc Nicoud,2015-04-20 A result oriented practical guide to key approaches methodologies and tools for designing modelling and simulating chromatographic processes

**Chromatography** E. Heftmann,2004-04-16 Chromatography has emerged as the most important and versatile analytical method The book is not only an updated version of Heftmann s classical text but it covers areas of future importance such as microfluidics and computer resources Under his experienced guidance authorities in each field have contributed their practical experience to an integrated treatment of modern micro analysis In Part A the theoretical basis of individual separation methods is explained and the technical aspects are illustrated It includes the theory of gas and liquid chromatography as well as specific chromatographic techniques such as size exclusion planar ion and affinity chromatography as well as various electrokinetic separation techniques Microfluidics are covered for the first time and useful sources of analytical instruments are listed and evaluated 1 Each chapter written by an authority2 Thorough treatment of the theoretical basis of separation methods3 Practical guide for performing analyses

**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

**Green Chemistry in the Pharmaceutical Industry** Peter J. Dunn,Andrew Wells,Michael T. Williams,2010-02-02 Edited by three of the world s leading pharmaceutical scientists this is the first book on this important and hot topic containing much previously unpublished information As such it covers all aspects of green chemistry in the pharmaceutical industry from simple

molecules to complex proteins and from drug discovery to the fate of pharmaceuticals in the environment Furthermore this ready reference contains several convincing case studies from industry such as Taxol Pregabalin and Crestor illustrating how this multidisciplinary approach has yielded efficient and environmentally friendly processes Finally a section on technology and tools highlights the advantages of green chemistry

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

*Separation and Purification Technologies in Biorefineries* Shri Ramaswamy, Hua-Jiang Huang, Bandaru V. Ramarao, 2013-02-04 Separation and purification processes play a critical role in biorefineries and their optimal selection design and operation to maximise product yields and improve overall process efficiency Separations and purifications are necessary for upstream processes as well as in maximising and improving product recovery in downstream processes These processes account for a significant fraction of the total capital and operating costs and also are highly energy intensive Consequently a better understanding of separation and purification processes current and possible alternative and novel advanced methods is essential for achieving the overall techno economic feasibility and commercial success of sustainable biorefineries This book presents a comprehensive overview focused specifically on the present state future challenges and opportunities for separation and purification methods and technologies in biorefineries Topics covered include Equilibrium Separations Distillation liquid liquid extraction and supercritical fluid extraction Affinity Based Separations Adsorption ion exchange and simulated moving bed technologies Membrane Based Separations Microfiltration ultrafiltration and diafiltration nanofiltration membrane pervaporation and membrane distillation Solid liquid Separations Conventional filtration and solid liquid extraction Hybrid Integrated Reaction Separation Systems Membrane bioreactors extractive fermentation reactive distillation and reactive absorption For each of these processes the fundamental principles and design aspects are presented followed by a detailed discussion and specific

examples of applications in biorefineries Each chapter also considers the market needs industrial challenges future opportunities and economic importance of the separation and purification methods The book concludes with a series of detailed case studies including cellulosic bioethanol production extraction of algae oil from microalgae and production of biopolymers Separation and Purification Technologies in Biorefineries is an essential resource for scientists and engineers as well as researchers and academics working in the broader conventional and emerging bio based products industry including biomaterials biochemicals biofuels and bioenergy

Process Scale Liquid Chromatography G. Subramanian,1995-01-18  
Process Scale Liquid Chromatography Edited by G Subramanian This book provides the industrial chromatographer and production scientist with a comprehensive account of process scale liquid chromatography The basic theory is presented guiding the reader through system design simulation and modelling techniques giving due consideration to economic aspects as well as safety and regulatory factors A thorough up to date survey of current techniques and media stresses their advantages and limitations in such a way as to facilitate their application to real life problems In view of the rapid rate of progression in industrial chromatography one chapter provides an assessment of future developments The chapters are written by acknowledged experts from Europe and the United States

**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 than170 articles across nine volumes including detailed analysis of core topics such as bonds oxidation and reduction Includes more than10 000 schemes and images Fully revised and updated important growth areas including combinatorial chemistry new technological industrial and green chemistry developments are covered extensively

*Chromatographic Techniques in the Forensic Analysis of Designer Drugs* Teresa Kowalska,Mieczyslaw Sajewicz,Joseph Sherma,2018-01-31 There is a dramatic rise of novel drug use due to the increased popularity of so called designer drugs These synthetic drugs can be illegal in some countries but legal in others and novel compounds unknown to drug chemistry emerge monthly This thoughtfully constructed edited reference presents the main chromatographic methodologies and strategies used to discover and analyze novel designer drugs contained in diverse biological materials The methods are based

on molecular characteristics of the drugs belonging to each individual class of compounds so it will be clear how the current methods are adaptable to future new drugs that appear in the market

### **Bioseparation Processes in Food**

Singh,1995-05-16 Offers in depth coverage of the latest advances in new and traditional separation technologies as they are used in a variety of ways to produce value added products Examines both fundamental and applied aspects of separation techniques

### **Handbook of HPLC** Danilo Corradini,Elena Eksteen (Katz),Roy Eksteen,Peter Schoenmakers,Neil

Miller,2011-01-03 Delineating its usage in separation purification and detection processes across a variety of disciplines from industry to applied research this work discusses the principles techniques and instrumentation involving HPLC within a detailed framework Over 100 tables present previously scattered experimental data

### *Sustainability in TIDES Chemistry*

Alessandra Tolomelli,Lucia Ferrazzano,Walter Cabri,2024-10-18 Oligopeptides and oligonucleotides jointly defined as TIDES have been neglected in the past as potential drugs due to their short half life and practical difficulties in the manufacturing processes

The consolidation of iterative synthetic techniques allowing for design of new chemical entities with better pharmaceutical profiles has led to renewed interest in these compounds Large scale manufacturing is therefore now required and it is important that sustainability and green chemistry are considered from the outset As the two classes display many similarities advances in sustainable approaches can easily be adapted from one class to the other This book brings together all of the information on green synthesis of oligopeptides which is well established and all of the preliminary data on green oligonucleotides synthesis creating a resource that will help chemists to bridge the gap between these two areas

### **Hplc Of**

**Biological Macro- Molecules, Revised And Expanded** Karen M. Gooding,Fred E. Regnier,2002-01-08 Completely revised to reflect the innovations in HPLC from the past decade this authoritative reference presents practical strategies for the evaluation and analysis of proteins peptides and polynucleotides Offering class specific applications for the characterization and fractionation of biological macromolecules the book contains material on organic supports size exclusion ion exchange hydrophobic interaction and metal interaction chromatography Leading experts summarize specialized detection systems provides discussions on the chemical and biological properties of specific biomolecules include detailed guidelines for the development of analytical techniques and more

### **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

### **HPLC for**

**Pharmaceutical Scientists** Yuri V. Kazakevich,Rosario LoBrutto,2006-12-13 HPLC for Pharmaceutical Scientists is an

excellent book for both novice and experienced pharmaceutical chemists who regularly use HPLC as an analytical tool to solve challenging problems in the pharmaceutical industry. It provides a unified approach to HPLC with an equal and balanced treatment of the theory and practice of HPLC in the pharmaceutical industry. In depth discussion of retention processes, modern HPLC separation theory, properties of stationary phases and columns are well blended with the practical aspects of fast and effective method development and method validation. Practical and pragmatic approaches and actual examples of effective development of selective and rugged HPLC methods from a physico-chemical point of view are provided. This book elucidates the role of HPLC throughout the entire drug development process from drug candidate inception to marketed drug product and gives detailed specifics of HPLC application in each stage of drug development. The latest advancements and trends in hyphenated and specialized HPLC techniques LC-MS, LC-NMR, Preparative HPLC, High temperature HPLC, high pressure liquid chromatography are also discussed. 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 Zurich 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.



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