

Theoretical Advancement in Chromatography and Related Separation Techniques

Edited by

Francesco Dondi and Georges Guiochon

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Theoretical Advancement in Chromatography and Related Separation Techniques Francesco Dondi, Georges Guiochon, 2012-12-06 Chromatography and all the related separation techniques are experimental in their origin and justification However the spectacular progress made in this area since World War II has given rise to a theoretical underpinning The present book covers the current status of the research area and places it in perspective with the general concepts of the fields of physical chemistry involved The ASI lectures authors well known leaders in their fields have written presentations at the graduate level accessible to all those who have a good general background in the thermodynamics and mass transfer theory of phase equilibria The book will be useful to young scientists and engineers who wish to access the current frontiers in chromatography and other separation sciences Theoretical Advancement in Chromatography and Related Separation Techniques Francesco Dondi, Georges Guiochon, 2012-01-10 Chromatography and all the related separation techniques are experimental in their origin and justification However the spectacular progress made in this area since World War II has given rise to a theoretical underpinning The present book covers the current status of the research area and places it in perspective with the general concepts of the fields of physical chemistry involved The ASI lectures authors well known leaders in their fields have written presentations at the graduate level accessible to all those who have a good general background in the thermodynamics and mass transfer theory of phase equilibria The book will be useful to young scientists and engineers who wish to access the current frontiers in chromatography and other separation sciences

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and to improve their FFF methods and interpretation of their results Encyclopedia of Chromatography (Print) Jack Cazes, 2001-06-29 This practical single volume source collects up to date information on chromatographic techniques and methodologies for the solution of analytical and preparative problems applicable across a broad spectrum of disciplines including biotechnology pharmaceuticals environmental sciences polymers food additives and nutrients pathology toxicology fossil fuels and nuclear chemistry. It highlights real world applications easy to read fundamentals of problem solving and material identification methods and detailed references Written by over 180 esteemed international authorities and containing over 300 chapters 2600 works cited and 1000 drawings equations tables and photographs the Encyclopedia of Chromatography covers high performance liquid thin layer gas affinity countercurrent supercritical fluid gel permeation and size exclusion chromatographies as well as capillary electrophoresis field flow fractionation hyphenated techniques and more PRINT ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT e reference taylorandfrancis com Microfluidic Technologies for Miniaturized Analysis Systems Steffen Hardt, Friedhelm Schönfeld, 2007-09-29 Microfluidic Technologies for Miniaturized Analysis Systems provides a comprehensive overview of the fluidic aspects of Lab on a Chip technology This book describes the most important and state of the art microfluidic technologies and the underlying principles utilized in the implementation of fluidic protocols of miniaturized analysis systems This book discusses many of the effects outcomes and techniques which are unique to microfluidic systems. The specific components of this technology toolbox are elucidated through research and examples presented by some of the most renowned experts in the field Microfluidic Technologies for Miniaturized Analysis Systems is an important reference for professionals and academic researchers seeking information about the latest techniques including Control and pumping of small amounts of liquid Particle and cell manipulation Micromixing Separation technology Bioanalytic methods About the MEMS Reference Shelf The MEMS Reference Shelf is a series devoted to Micro Electro Mechanical Systems MEMS which combine mechanical optical or fluidic elements on a common microfabricated substrate to create sensors actuators and microsystems This series strives to provide a framework where basic principles known methodologies and new applications are integrated in a coherent and consistent manner STEPHEN D SENTURIA MASSACHUSETTS INSTITUTE OF TECHNOLOGY PROFESSOR OF ELECTRICAL Field-Flow Fractionation Handbook Martin E. Schimpf, Karin Caldwell, J. Calvin **ENGINEERING EMERITUS** Giddings, 2000-08-02 Die Feld Flu Fraktionierung ist eine besonders kosteng nstige chromatographie hnliche Methode der Trennung von Makromolek len beispielsweise von pharmazeutischen Wirkstoffen Polymeren und Inhaltsstoffen von B den oder Nahrungsmitteln Dieses Handbuch beleuchtet vor allem die praktischen Aspekte des Verfahrens Durch die verst ndliche Darstellung ist es freinen breiten Leserkreis mit unterschiedlichen Vorkenntnissen und Bed rfnissen geeignet 07 00

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interaction and size exclusion methods of separation identification and characterization of substances in solution It provides practical information and analysis on the most effective mechanisms of interfacial chromatography along with its expanding possibilities for biomedical industrial and environmental applications Journal of Chromatography ,2002 Gel **Electrophoresis of Proteins** B. D. Hames, 1998-10-01 This new edition of Gel Electrophoresis of Proteins is a completely new text with eight of the ten chapters written by new authors It presents the best methods hints and tips for core procedures such as one dimensional polyacrylamide gel electrophoresis isoelectric focusing two dimensional gel electrophoresis preparative gel electrophoresis and peptide mapping complete with the latest refinements and updates of the procedures In addition it describes major new techniques which have come to the fore since the previous edition Thus there are chapters on capillary gel electrophoresis sequence analysis of gel resolved proteins fluorophore labelled saccharide electrophoresis and analysis of protein protein interactions by gel electrophoresis. One thing has not changed The emphasis is still on describing the best methods in step by step detail with copious advice to ensure that each method works first time in the reader's hands The first two editions of Gel Electrophoresis of Proteins A Practical Approach each gained a strong reputation as easy to follow laboratory manuals written by experienced researchers for researchers The methods were presented in a clear accessible format and had been fully tested to ensure success in the lab This new edition will strengthen the reputation of the book still further It is a must have for all those who currently use gel electrophoresis or who plan to do American Book Publishing Record, 1997-09 Simulated Moving Bed Technology Alirio Rodrigues, 2015-05-23 Simulated Moving Bed Technology is one of only a few books solely dedicated to SMB It aims to equip you with the tools and skills needed for SMB modelling simulation design and operation The theory presented is supported by real world examples from the petrochemical sugar and pharma industries The core of the book focuses on SMB process development and model validation It explains basic process concepts and definitions fundamental principles and equations as well as typical applications and recent advances made to address challenges Its specialist content makes it a must have book for people working with SMB technology chemical engineering post graduate students and process and R D engineers in industry Will provide you with the tools and predictive approaches for use in SMB design and performance assessment Covers SMB modelling simulation design and operation as applied to separation and reaction processes Discusses process intensification through coupling SMB and reaction in SMBR membrane permeation and SMBR in PermSMBR and introduces the design of SCPC Encyclopedia of Separation Science Ian D. Wilson, E. R. Adlard, Michael Cooke, C. F. Poole, 2000 Volume 1 of this resource encyclopedia contains Level 1 which provides a broad overview of the theory of the 12 main categories of separation techniques Volumes 2 4 Level 2 expand coverage with detailed theoretical and technical descriptions of particular techniques The remaining Volumes 5 9 Level 3 cover applications of these techniques from the micro to the macro and from the analytical laboratory bench to large scale industrial processes The last volume consists mainly of the index Bulletin of

the Korean Chemical Society ,1995 Russian Journal of Physical Chemistry ,1995 Field-Flow Fractionation in Biopolymer Analysis S. Kim R. Williams, Karin D. Caldwell, 2011-12-03 This is a timely collection of important biomedical applications for a set of separation characterization techniques that are rapidly gaining popularity due to their wide dynamic range high resolution and ability to function in most commonly used solvent systems Importantly the field flow fractionation FFF technique has recently emerged as a prominent complement to size exclusion chromatography for protein pharmaceuticals Fractionation with FFF is gentle and preserves protein structural integrity better than existing alternatives In the present text different chapters are written by experts in their respective field of application who offer comparisons between the FFF techniques and other methods for characterizing their special focus material Practical guide lines for successful implementation such as choice of operating conditions are offered in conjunction with each application In addition to new instrumentation and approaches that address important current topics readers are provided with an overall sense of prior but timeless major developments that may be overlooked in literature searches

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