

Unified Separation Science

J. Calvin Giddings

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RC Schank



Unified Separation Science:

Unified Separation Science J. Calvin Giddings, 1991-01-16 Unifies the complex welter of techniques used for chemical separations by clearly formulating the concepts that are common to them The mass transport phenomena underlying all separation processes are developed in a simple physical mathematical form The limitations and optimum performance of alternative separation techniques and the factors enhancing and limiting separation power can thus be described and explored Generously illustrated and contains numerous exercises Long awaited in the scientific community it breaks new ground in understanding separation processes **An Introduction to Separation Science** Barry L. Karger, Lloyd R. Snyder, Csaba Horvath, 1973-11-09 A comprehensive integrated view of separation science Introduction to Separation Science offers a unified treatment of the fundamentals and practical applications of separation The book places an emphasis on laboratory and analytical separations and takes this unified approach to address the fact that practical applications in separation have been developed and used in a variety of unrelated disciplines The result is a complete overview of separation techniques within these varied disparate areas of practice providing the perfect guide to the reader who wishes to become familiar with separation techniques in fields outside their own **Handbook of Membrane Separations** Anil Kumar Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores **Multidimensional Chromatography** Luigi Mondello, Alastair C. Lewis, Keith D. Bartle, 2002-02-15 Concentrates on the broad field of multidimensional chromatography and its applications in various areas including pharmaceutical industrial environmental biological and petroleum Presents information for using multidimensional chromatography in the analytical laboratory Contains invaluable information put together from the experience and research activities of the authors including Keith Bartle a pioneer in multidimensional chromatography First book to discuss all multidimensional techniques Covers a subject area that is part of the exploding field of hyphenated techniques Includes a general introduction to all areas of the subject followed by applications **Encyclopedia of Separation Science** Michael Cooke, C. F. Poole, 2000 **Handbook of Affinity Chromatography** Toni Kline, 1993-06-16 Outlining the fundamental principles by which all interactions occur this reference focuses on harnessing the biochemistry of bioorganic compounds in order to separate them presenting new techniques and applications that affect the planning of research strategies The contributors discuss how to carry out **Chromatography-A Century of Discovery 1900-2000. The Bridge to The Sciences/Technology**, 2001-12-18 Chromatography A Century of Discovery 1900 2000 represents the combined thinking and contributions of many chromatographers It includes several in depth feature chapters covering the Beginnings of Chromatography which highlights M S Tswett the inventor of chromatography and several other early pioneers

Included are the contributions of several Nobel Laureates and 125 Chromatography Award Winners and contributors an extensive bibliography of publications on the History of the Evolution of Chromatography a presentation of Major International Symposia supporting chromatography and as a bridge to selected sciences Special chapters are written by well known Chromatographers on Support and Stationary Phases and Separations followed by a chapter on Milestones and Paradigm Shifts in Science New discoveries in the life sciences and medicine agriculture the environment and separations technology in the 21st century will rely immeasurably on the 20th century research tools in chromatography and those yet to be developed

Quantitative Chemical Analysis Daniel C. Harris, 2010-04-30 QCA is the bestselling textbook of choice for analytical chemistry It offers a modern portrait of the techniques of chemical analysis backed by a wealth of real world applications This edition features new coverage of spectroscopy and statistics new pedagogy and enhanced lecturer support

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

Liquid Membranes Vladimir S Kislik, 2009-08-31 Liquid Membranes Principles and Applications in Chemical Separations and Wastewater Treatment discusses the principles and applications of the liquid membrane LM separation processes in organic and inorganic chemistry analytical chemistry biochemistry biomedical engineering gas separation and wastewater treatment It presents updated useful and systematized information on new LM separation technologies along with new developments in the field It provides an overview of LMs and LM processes and it examines the mechanisms and kinetics of carrier facilitated transport through LMs It also discusses active transport driven by oxidation reduction catalytic and bioconversion reactions on the LM interfaces modifications of supported LMs bulk aqueous hybrid LM processes with water soluble carriers emulsion LMs and their applications and progress in LM science and engineering This book will be of value to students and young researchers who are new to separation science and technology as well as to scientists and engineers involved in the research and development of separation technologies LM separations and membrane reactors Provides comprehensive knowledge based information on the principles and applications of a variety of liquid membrane separation processes Contains a critical analysis of new technologies published in the last 15 years

Science John Michels (Journalist), 2001 *Metal-ion Separation and Preconcentration* Andrew H. Bond, 1999 The collection discusses the role of separations in nuclear processing the influence and use of aqueous phases in separations extractant design and synthesis liquid liquid and solid liquid distribution membrane separations and supercritical fluid extractions With a balance of fundamental and applied research the book covers the most significant recent advances in metal ion separations

Pharmacology Miles Hacker, William S.

Messer, Kenneth A. Bachmann, 2009-06-19 Pharmacology meets the rapidly emerging needs of programs training pharmacologic scientists seeking careers in basic research and drug discovery rather than such applied fields as pharmacy and medicine While the market is crowded with many clinical and therapeutic pharmacology textbooks the field of pharmacology is booming with the prospects of discovering new drugs and virtually no extant textbook meets this need at the student level The market is so bereft of such approaches that many pharmaceutical companies will adopt Hacker et al to help train new drug researchers The boom in pharmacology is driven by the recent decryption of the human genome and enormous progress in controlling genes and synthesizing proteins making new and even custom drug design possible This book makes use of these discoveries in presenting its topics moving logically from drug receptors to the target molecules drug researchers seek covering such modern topics along the way as side effects drug resistance pharmacogenomics and even nutraceuticals one in a string of culminating chapters on the drug discovery process The book is aimed at advanced undergraduates and beginning graduate students in medical pharmacy and graduate schools looking for a solid introduction to the basic science of pharmacology and envisioning careers in drug research Uses individual drugs to explain molecular actions Full color art program explains molecular and chemical concepts graphically Logical structure reflecting the current state of pharmacology and translational research Covers such intricacies as drug resistance and cell death Consistent format across chapters and pedagogical strategies make this textbook a superior learning tool HPLC Detection Gabor Patonay, 1992 This book provides a detailed survey of the more powerful and less conventional HPLC detection methods available today Addressing both theory and application experts give their assessment of some of the most promising detection methods being developed Long lived luminescence near infrared semiconductor laser fluorescence and HPLC mass spectrometry are among the methods discussed In addition an entire chapter is devoted to showing how the ultimate power of NMR may be combined with HPLC This book serves the needs of chromatographers who find their work restricted by the limits of conventional HPLC detection methods and whose practical needs dictate the use of newer more powerful methods

Basic Research Needs for Advanced Nuclear Energy Systems, 2006 Choice, 1991 **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.), 2004 *Micro Total Analysis Systems 2004* Thomas Laurell, 2004 Journal of Chromatography, 2003 **MicroTas 2004** Thomas Laurell, Johan Nilsson, Jed Harrison, Klavs Jensen, J. P. Kutter, 2004 The Eighth International Conference on Miniaturized Systems in Chemistry and Life Science MicroTas 2004 is an annual meeting focusing on the research development and application of miniaturized technologies and methodologies in chemistry and life science The conference is celebrating its tenth anniversary after the first workshop at the University of Twente The Netherlands in 1994 This research field is rapidly developing and changing towards a domain where core competence areas such as microfluidics micro and nanotechnology materials science chemistry biology and medicine are melting together to a truly interdisciplinary meeting place This volume

is the first in a two volume set a valuable reference collection to all working in this field

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