

Unified Chromatography

Phillip S. Wells, Shuxia Zhou, and Jon F. Parcher

Emerging chromatographic schemes involve binary mobile phases with CO₂.

Chromatographic methods are usually classified according to the physical state of the mobile phase—for example, GC, supercritical fluid chromatography (SFC), and LC. This admittedly oversimplified classification scheme exists partly because of the similarity of most chromatographic stationary phases, which are usually either polymers or solid adsorbents and are often deactivated by some chemically bonded moiety. Because of the banality of stationary phases, any attempt to unify the various forms of chromatography will naturally center on the mobile phase. To date, many researchers consider the most promising approach to unification to be the use of CO₂ as the mobile phase, because of the “tunable” solvent strength of this fluid.

Unfortunately, neat CO₂ alone is not a good mobile phase because of its poor solvent properties. For this reason, a polar, organic “modifier” is usually mixed with CO₂ to produce a mobile phase with improved solvent properties for polar solutes without significantly altering the physical properties of the mobile phase. The development of practical chromatographic schemes involving binary mobile phases with CO₂ as a component is a promising area of research, and analytical applications of this technology constitute a significant body of chromatographic literature. These systems, although chromatographically useful and interesting, are also very complex, difficult to control experimentally, and often intractable to theoretical modeling and interpretation. For these reasons, a broad discussion of these fasci-

ating systems is both timely and appropriate.

The normally assigned role of the mobile phase in any chromatographic system is simply to transport the solutes through the column. The classical model assumes that all solutes in the mobile phase travel at the same velocity as the bulk mobile phase itself. There are exceptions to this simplistic model, such as size-exclusion and hydrodynamic chromatography, in which various regions of the mobile phase travel at different velocities. Nevertheless, assuming that all of the solutes spend the same amount of time in the mobile phase, any observed chromatographic resolution of the solutes must be determined solely by the amount of time each solute resides somewhere in the column other than in the mobile phase.

This concept illustrates the normal role of the so-called stationary phase. If molecular diffusion is neglected, the stationary phase provides a place in the column for the solutes to reside without undergoing axial movement. Researchers, however, should keep in mind that not all the stationary-phase components must be fixed within the column. In addition, not all of the mobile phase must move at a uniform velocity. The analytical solutes may interact with mobile-phase components, stationary-phase components, or mobile-phase components dissolved in or adsorbed on the stationary phase.

Binary Mobile Phases

Binary mobile phases are used often, particularly in HPLC and SFC. Some very elegant separations have also been achieved with gradient elution and solvent programming techniques. Such multicomponent mobile phases are popular primarily because they can be used to provide continuous control of the

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Arturo Cuomo



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Unified Chromatography J. F. Parcher, T. L. Chester, 2000 Here authors specializing in different branches of chromatography including gas chromatography supercritical fluid chromatography and high pressure liquid chromatography describe their fields while drawing out connections with other branches

Microbore Column Chromatography F. J. Yang, 2020-08-26 This book describes the various aspects of microbore column chromatography It provides readers with an in depth understanding of the supercritical fluid chromatography and microbore high performance liquid chromatography

Unified Chromatography on Open-tubular and Packed Capillary Columns Daixin Tong, 1995

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

Chromatography Robert L. Wixom, Charles W. Gehrke, 2011-01-31 Leading researchers discuss the past and present of chromatography More than one hundred years after Mikhail Tswett pioneered adsorption chromatography his separation technique has developed into an important branch of scientific study Providing a full portrait of the discipline *Chromatography A Science of Discovery* bridges the gap between early twentieth century chromatography and the cutting edge of today's research Featuring contributions from more than fifty award winning chromatographers *Chromatography* offers a multifaceted look at the development and maturation of this field into its current state as well as its importance across various scientific endeavors The coverage includes Consideration of chromatography as a unified science rather than just a separation method Key breakthroughs revolutions and paradigm shifts in chromatography Profiles of Nobel laureates who used chromatography in their research and the role it played Recent advances in column technology *Chromatography's* contributions to the agricultural space biological medical sciences pharmaceutical science and environmental natural products and chemical analysis Future trends in chromatography With numerous references and an engaging series of voices *Chromatography A Science of Discovery* offers a diverse look at an essential area of science It is a unique and invaluable resource for researchers students and other interested readers who seek a broader understanding of this field

Ewing's Analytical Instrumentation Handbook, Fourth Edition Nelu Grinberg, Sonia Rodriguez, 2019-02-21 This handbook is a guide for workers in analytical chemistry who need a starting place for information about a specific instrumental technique It gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique This edition thoroughly expands and updates the chapters to include concepts

applications and key references from recent literature It also contains a new chapter on process analytical technology

Advances in Lipid Methodology R O Adlof,2003-10-01 The fifth volume in the Advances in lipid methodology series is the first with new editor Richard O Adlof but its objectives are still those of the previous editor William W Christie To provide readable up to date reviews of rapidly expanding areas of lipid analysis and practical examples which should be of immediate use to lipid analysts As in the previous volumes of Advances in lipid methodology the editor has chosen leading international experts to write individual chapters Volume 5 contains four chapters on specific methodologies of lipid analysis and three which describe specific applications or standardization of methods The methodologies are different scanning calorimetry for the study of physical properties of fats and oils silver ion chromatography atmospheric pressure chemical ionization mass spectrometry APCI MS and supercritical fluid chromatography SFC Chapters on specific applications cover the analysis of genetically modified oils and the use of fatty acid profiling in the characterization of metabolic diseases A further chapter provides an overview of the official standard methods used for fats and oils analysis and gives extensive listings of information on standards organizations

Modern Environmental Analysis Techniques for Pollutants Chaudhery Mustansar Hussain,Rustem Kecili,2019-08-20 Modern Environmental Analysis Techniques for Pollutants presents established environmental analysis methods rapidly emerging technologies and potential future research directions As methods of environmental analysis move toward lower impact lower cost miniaturization automation and simplicity new methods emerge and ultimately improve the accuracy of their analytical results This book gives in depth step by step descriptions of a variety of techniques including methods used in sampling field sample handling sample preparation quantification and statistical evaluation Modern Environmental Analysis Techniques for Pollutants aims to deliver a comprehensive and easy to read text for students and researchers in the environmental analysis arena and to provide essential information to consultants and regulators about analytical and quality control procedures helpful in their evaluation and decision making procedures Bridges the gap in current literature on analytical chemistry techniques and their application to environmental analysis Covers the use of nanomaterials in environmental analysis as well as the monitoring and analysis of nanomaterials in the environment Looks to the past present and future of environmental analysis with chapters on historical background established and emerging techniques and instrumentation and predictions

Journal of Chromatography ,1997 *Science* John Michels (Journalist),2001 *Science in China* ,1991 *Memoirs of the Faculty of Engineering, Nagoya University* ,1989 *Canadian Journal of Chemistry* ,1992 *Analytical Chemistry in a GMP Environment* James M. Miller,Jonathan B.

Crowther,2000-05 Based on the Laboratory Analyst Training and Certification Program chemists from a range of pharmaceutical companies and a few academic laboratories explain how to comply with the US Food and Drug Administration s Good Manufacturing Practice rules as analytical technologies are changing rapidly Among the topics are the drug development process uniform and consistent interpretation of compliance issues the role of statistics and basic topics in

analytical chemistry and detectors and quantitative analysis The emphasis is on high performance liquid chromatographic methods

Capillary Electrophoresis for Thermodynamic and Kinetic Studies Carl I. D. Newman, 2006

Analysis, 1993

Analytical Applications of Spectroscopy C. S. Creaser, Anthony M. C. Davies, 1988 This book provides wide ranging coverage of recent developments in analytical spectroscopy and particularly the common themes of chromatography spectroscopy combinations Fourier transform methods and data handling techniques Back cover

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

New Technical Books New York Public Library, 1990

Analyses of Fats, Oils, and Lipoproteins Edward George Perkins, 1991 Reflects the current state of the art of analysis of fats oils and other lipids which is essential in the study of the nutritional and metabolic roles of these compounds Embodies practical material intended as a reference for those working in the field and others interested in lipids

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