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Practical High-Performance Liquid Chromatography CRC
Press

HPLC and CE: Principles and Practice presents the latest information on the most powerful separation techniques available: high-performance liquid chromatography (HPLC) and capillary electrophoresis (CE). Fundamental theory, instrumentation, modes of operation, and optimization of separations are presented in a concise, non-technical style to help the user in choosing the appropriate technique quickly and accurately. Well-illustrated and containing convenient end-of-

chapter summaries of the major concepts, the book provides in-depth coverage of trouble-shooting, improvement of resolution, data manipulation, selectivity, and sensitivity. Graduate students, technicians, and researchers who must use separations with little or no background in analytical chemistry can overcome separation anxiety and get started in obtaining the best possible separations in minimal time. The book will also be useful to analytical chemists who need a better understanding of theory and processes. Fully up-to-date information on both HPLC and CE includes troubleshooting and comparisons of the two techniques. Applicable to a wide variety of separation problems. Covers basic concepts governing any separation as well as instrumentation and how to use it. Helps the user to obtain optimal resolution in minimal time. Contains information on special procedures such as

chiral separations, affinity chromatography, and sample preparation. Includes information on upcoming trends such as miniaturization. Major concepts in each chapter are organized to allow access to information easily and quickly. Contains practical bibliography for accessing the literature.

Introduction to Modern Liquid Chromatography Royal Society of Chemistry

Modern liquid column chromatography (LC) has developed rapidly since 1969 to become a standard method of separation. If the statisticians are to be believed, the recent growth of LC has been the most spectacular development in analytical chemistry and has not yet abated because its vast potential for application remains to be fully exploited. Significant factors contributing to this continued rise are the simplicity and low cost of the required basic equipment and the relative ease of acquiring and interpreting the data. Unfortunately, in LC, as so often in the field of analytical chemistry, the available commercial instruments are frequently far more complicated - and consequently far more expensive - than is necessary for routine application. Therein also lies the risk of propagating a "black box" philosophy that would be particularly detrimental to chromatography. Moreover, it appears to have been forgotten, as was done previously with gas chromatography, that inadequate separation by a column can be remedied only with great difficulty, if at all, by electronic means. Also, whether the capillary columns recently advocated with great enthusiasm for LC will fulfill the expectations of their proponents is highly questionable unless someone comes up with some new and revolutionary ideas.

Introduction to Modern Liquid Chromatography Springer Science

& Business Media

This book presents a guide for the analysis of biomedically important compounds using modern liquid chromatographic techniques. After a brief summary of basic liquid chromatographic methods and optimization strategies, the main part of the book focuses on the various classes of biomedically important compounds: amino acids, catecholamines, carbohydrates, fatty acids, nucleotides, porphyrins, prostaglandins and steroid hormones. The different chapters discuss specialized techniques pertaining to each class of compounds, such as sample pretreatment, pre- and post-column derivatization, detection and quantification.

Liquid Chromatography Elsevier

High Performance Liquid Chromatography focuses on the developments, operating techniques, practices, equipment, and packing materials involved in High Performance Liquid Chromatography (HPLC). The book first offers information on basic chromatographic theory, equipment, and the column. Topics include resolution, efficiency, pumps and gradient systems, connectors, detectors, injectors, column packing and testing, packing materials, and coupling of columns. The text also ponders on sample treatment and separation methods, as well as trace analysis, reversed phase chromatography, and selection/optimization conditions. The publication examines adjustment of selectivity by the use of eluent additives and preparative liquid chromatography. Discussions focus on chromatography on dynamically modified oxide gels, metal complexation, crown ethers, ion pair chromatography, materials for preparative chromatography, and separation strategy. The

text also reviews the trends in the practice of HPLC and chiral chromatography. The book is a dependable reference for readers interested in High Performance Liquid Chromatography.

High-performance Liquid Chromatography and Lipids

Elsevier

High performance liquid chromatography is the most powerful of all the chromatographic techniques, often achieving separations and analyses that would be difficult or impossible with other forms of chromatography. This study and training text examines the concepts and techniques used in this field. A selection of literature available from equipment manufacturers is included along with a brief review of some more specialized topics.

Introduction to Modern Liquid Chromatography

Springer Science & Business Media

Basic concepts; Control of separation; Equipment; Detectors for liquid chromatography; The column; Liquid-liquid chromatography; Liquid-solid chromatography; Ion-exchange chromatography; Gel chromatography; Gel chromatography; Selecting and developing one of the four LC methods; Large-scale separations.

High Performance Liquid Chromatography John Wiley & Sons
High-Performance Liquid Chromatography: Advances and Perspectives, Volume 2 presents the fundamental aspects of high-performance liquid chromatography, laboratory technique for chemical analysis with a wide range of applications. The book consists of three chapters discussing the optimization of the column and the operating conditions of the chromatographic system; use of polar adsorbents and nonpolar eluents; and reversed-phase chromatography, the main branch of high-

performance liquid chromatography. Chromatographers, chemists, and researchers in the field of chemical analysis will find this book a good reference material.

High Performance Liquid Chromatography Elsevier

HPLC is the most powerful of all chromatographic techniques but because of its sophistication, it requires both extensive experience and good theoretical knowledge. The book provides practical experience in the use of basic HPLC equipment, demonstrates the various parameters that control HPLC equipment, demonstrates the various parameters that control HPLC separations, shows the use of the technique for separation and quantitative analysis and illustrates some of the important principles from the theory part of the unit. All the background to the technique, detail on available instrumentation and on appreciation of results interpretation and the effect of varying instrumental parameters are covered.

Chromatographic Theory and Basic Principles John Wiley & Sons

This work introduces scientists of all disciplines to the chromatographic process and how it functions. The basic principles of chromatographic separation and specific chromatographic procedures, including gas, liquid and thin-layer chromatography, are covered. For each separation method the book details its characteristics, the instrumentation required, the procedures necessary for effective use, areas of application and examples of its use.; This work is intended for analytical chemists, laboratory technicians, and upper-level undergraduate and graduate students in analytical chemistry or separation science courses.

High-Performance Liquid Chromatography Walter de Gruyter

GmbH & Co KG

Instrumental Liquid Chromatography

Beginners Guide to Liquid Chromatography Wiley-Interscience

Includes bibliographical references and index.

Ultra-High Performance Liquid Chromatography and Its Applications Elsevier

Explores both the benefits and limitations of new UHPLC technology High performance liquid chromatography (HPLC) has been widely used in analytical chemistry and biochemistry to separate, identify, and quantify compounds for decades. The science of liquid chromatography, however, was revolutionized a few years ago with the advent of ultra-high performance liquid chromatography (UHPLC), which made it possible for researchers to analyze sample compounds with greater speed, resolution, and sensitivity. Ultra-High Performance Liquid Chromatography and Its Applications enables readers to maximize the performance of UHPLC as well as develop UHPLC methods tailored to their particular research needs. Readers familiar with HPLC methods will learn how to transfer these methods to a UHPLC platform and vice versa. In addition, the book explores a variety of UHPLC applications designed to support research in such fields as pharmaceuticals, food safety, clinical medicine, and environmental science. The book begins with discussions of UHPLC method development and method transfer between HPLC and UHPLC platforms. It then examines practical aspects of UHPLC. Next, the book covers: Coupling UHPLC with mass spectrometry Potential of shell particles in fast liquid chromatography Determination of abused drugs in human biological matrices Analyses of isoflavones and flavonoids

Therapeutic protein characterization Analysis of illicit drugs The final chapter of the book explores the use of UHPLC in drug metabolism and pharmacokinetics studies for traditional Chinese medicine. With its frank discussions of UHPLC's benefits and limitations, Ultra-High Performance Liquid Chromatography and Its Applications equips analytical scientists with the skills and knowledge needed to take full advantage of this new separation technology.

High Performance Liquid Chromatography in Phytochemical Analysis Elsevier

This volume provides a straightforward approach to isolation and purification problems with a thorough presentation of preparative LC strategy including the interrelationship between the input and output of the instrumentation, while keeping to an application focus. The book stresses the practical aspects of preparative scale separations from TLC isolations through various laboratory scale column separations to very large scale production. It also gives a thorough description of the performance parameters (e.g. throughput, separation quality, etc.) as a function of operational parameters (e.g. particle size, column size, solvent usage, etc.). Experts in the field have contributed a well balanced presentation of separation development strategies from preparative TLC to commercial preparative process with practical examples in a wide variety of application areas such as drugs, proteins, nucleotides, industrial extracts, organic chemicals, enantiomers, polymers, etc.

Chromatography CRC Press

The book provides an indispensable guide on how to use HPLC in pharmaceutical analysis and drug control. Following a hands-on

approach, the authors give practical advices how to prepare stationary and mobile phases, choose a suitable detector and set up an HPLC analysis. The publication gives insight into the key pharmaceutical applications of HPLC and the latest requirements of the major regulatory agencies.

High-performance Liquid Chromatography (HPLC) John Wiley & Sons

The powerful, efficient technique of high performance liquid chromatography (HPLC) is essential to the standardization of plant-based drugs, identification of plant material, and creation of new herbal medicines. Filling the void in this critical area, High Performance Liquid Chromatography in Phytochemical Analysis is the first book to give a comp

Instrumental Liquid Chromatography CRC Press

The Beginners Guide to Liquid Chromatography, a 56-page paperback book, is a useful tool for those learning about the technology of liquid chromatography (LC), with a focus on high-performance liquid chromatography (HPLC). The Beginners Guide offers an uncomplicated look at LC/HPLC and includes clear and colorful diagrams to acquaint the reader with basic concepts and terminology. No previous scientific training is required to obtain a better working knowledge of this powerful technology. Looking for something else? Learn a new technique or technology with the Waters Primers Series, view other titles available here: <http://www.wiley.com/go/waters>

High Performance Liquid Chromatography Elsevier

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 does stress their advantages and limitations in such a way as to facilitate their application to real-life problems. In view of rapid rate of development in industrial chromatography one chapter provides an assessment of future developments. The chapters are written by acknowledged experts from Europe and the United States.

Liquid Chromatography John Wiley & Sons

The main subject of this book is the characterization of plastics. To a high degree the properties of these polymers depend on the distribution of the molar mass and of other structural features, and small deviations frequently have a great effect. Therefore the characterization of polymers cannot be restricted to the determination of mean values but must yield information on these distributions. Using classical methods, the analytical fractionation of polymer homologues and structurally isomeric polymers is extremely time-consuming. Therefore, efficient chromatographic techniques are being increasingly employed in modern polymer characterization. In the first place, high-performance liquid chromatography is applied, in the form of size exclusion chromatography. It is also possible, however, to use other separation modes. More space is devoted to these other possibilities in this volume than is merited by their current range of applications, as the author believes that many separation problems will be solved by separation techniques of the non-exclusion type. Nevertheless, much emphasis is placed on size exclusion chromatography. Not only because of its current wide

range of applications, but also because its relative importance, as a complement to other chromatographic techniques may even increase in the forthcoming years. This book is the first to cover all phenomena related to the above considerations. Starting with an introduction to basic liquid chromatography and to polymer science, it deals with the adsorption behaviour of polymers, with gradient techniques, with the kinetic band broadening in liquid chromatography, with instrumental features and packing materials. The book consists of four balanced sections and related information from about 1800 references is compiled in the tables. Some 250 figures and 30 tables will help give the reader a clear insight of the topics discussed. The book is aimed at helping the analyst or polymer chemist who is looking for information about chromatographic methods for the characterization of polymers.

High Performance Liquid Chromatography Elsevier

How can these compounds be separated? Why was that method used? These are the two basic questions often asked by students of chromatography. HPLC: A Practical Guide provides the answers, enabling the reader to grasp the concepts of the technique using simple, representative chromatograms. Divided into six chapters, this practical guide covers basic concepts of HPLC; instrumentation; stationary phase materials; eluents;

column efficiency; and the influence of physical chemistry on separations. Focusing on the basic considerations such as selection of stationary phase and eluent, rather than specific applications, sections on troubleshooting are also included. Uniquely, the descriptions of chromatographic separations are based on solubility using molecular properties, and solubility parameters are used to analyse the selections of chromatographic mode and column. Presenting the chemistry of liquid chromatography for undergraduate students, this valuable practical guide will also be useful for laboratory staff in industry and academia.

Introduction to High Performance Liquid Chromatography Elsevier Inc. Chapters

First explaining the basic principles of liquid chromatography and mass spectrometry and then discussing the current applications and practical benefits of LC-MS, along with descriptions of the basic instrumentation, this title will prove to be the indispensable reference source for everyone wishing to use this increasingly important tandem technique. * First book to concentrate on principles of LC-MS * Explains principles of mass spectrometry and chromatography before moving on to LC-MS * Describes instrumental aspects of LC-MS * Discusses current applications of LC-MS and shows benefits of using this technique in practice

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