



High-Performance Liquid
Chromatography (HPLC)



High Performance Liquid Chromatography Software

**Seng Poon Ong, Baochang Cai, Xunhong
Liu**



High Performance Liquid Chromatography Software:

Software-assisted Method Development In High Performance Liquid Chromatography Szabolcs Fekete, Imre Molnar, 2018-08-01 The book is a useful contribution in the field of HPLC and may represent a valuable tool for chromatography practitioners in different fields as well as teachers and instructors The 12 chapters provide comprehensive insights of current day retention and resolution modelling in HPLC and its applications for small and large molecule analysis It may be a useful reference for specialists in pharmaceuticals but not limited to It may be a valuable resource to assist scientists involved in method development aiming to achieve the best results with reduced costs time and efforts Analytical and Bioanalytical Chemistry This handbook gives a general overview of the possibilities in recent developments in chromatographic retention modeling As a result of the latest developments in modeling software several new features are now accessible opening a new level in HPLC method development Many of these current possibilities in software assisted liquid chromatographic method modeling for analytical purposes are presented Several modes of chromatography including Reversed Phase Liquid Chromatography RPLC Ion Exchange Chromatography IEX Hydrophobic Interaction Chromatography HIC and Hydrophilic Interaction Liquid Chromatography HILIC are explained in detail For all these chromatographic modes the most important variables for tuning retention and selectivity are exposed Beside the industrial and practical benefits of retention modeling the possibilities in teaching and education are also illustrated Finally numerous representative industrial examples are shown to highlight the benefits time and cost savings offered by state of the art software assisted HPLC method development

Ultra-High Performance Liquid Chromatography and Its Applications Q. Alan Xu, 2013-04-01 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 Pesticide Residue Analysis* Tomasz Tuzimski, Joseph Sherma, 2015-05-20 HPLC is the principal separation technique for identification of the pesticides in environmental samples and for quantitative analysis of analytes At each stage of the HPLC procedure the chromatographer should possess both the practical and theoretical skills required to perform HPLC experiments correctly and to obtain reliable repeatable and r

High Performance Liquid Chromatography in Phytochemical Analysis Monika Waksmundzka-Hajnos, Joseph Sherma, 2010-11-08 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

High Performance Liquid Chromatography Omar Al Sayed Omar, Moustafa A. Khalifa, 2022-02-21 During the past decade modern high performance liquid chromatography HPLC utilization has expanded greatly especially in the quality control of pharmaceutical products in drug quality control laboratories This book provides an extensive collection of technical information about HPLC Columns physicochemical properties and chromatographic characteristics from various manufacturers and helps analysts to decide on the ideal approach for their analysis according to the requirements of drug manufacturers specifications and the desired Pharmacopeia In addition the authors give practical advice on how to prepare mobile phases choose a suitable detector and set up an HPLC analysis This book is comprehensive for the average professional or technician who plans to work with modern HPLC This book is useful for most Drug Quality Control Laboratories where modern HPLC is utilized Following a hands on approach the book gives key insights into the pharmaceutical applications of HPLC and the latest requirements of the major regulatory agencies such as ICH FDA or USP

High-Performance Liquid Chromatography of Peptides and Proteins Colin T. Mant, Robert S. Hodges, 2017-11-22 This book consists of a series of 82 precise easy to read articles by internationally renowned scientists and emphasizes the practical approach to HPLC with minimal theory although the underlying principles for peptide and protein separations are clearly expressed All of the major modes of microbore ultrafast and analytical HPLC are discussed including size exclusion ion exchange reversed phase hydrophobic interaction and affinity and immunoaffinity chromatography A section on preparative HPLC including displacement techniques is also presented Problem solving approaches to the separation of various classes of biologically active peptides and proteins are thoroughly explored while the importance of peptide standards for monitoring column performance and for optimizing separation conditions is emphasized Several articles focus on the choice of the correct detection method electrochemical UV fluorescence as well as the need for a proper knowledge of approaches to column and instrument maintenance and trouble shooting A section on predictive approaches deals with both

computer simulation of peptide separations and peptide structure The book also includes complementary techniques to HPLC as well as other useful applications of HPLC It enables both novice and experienced chromatographers to realize the full potential of this extremely powerful technique in the process making an important contribution to scientific literature

High Performance Liquid Chromatography Win Fung Ho,Brian Stuart,Elizabeth R. Prichard,2003 This book covers the basic practical aspects of high performance liquid chromatography HPLC and is aimed at the inexperienced analyst who may have no or very little knowledge of this technique It includes basic tips identifies key skills arouses awareness and gives guidance on good practice of the basic aspects of HPLC page 1

Intelligent Software for Chemical Analysis L.M.C. Buydens,P.J. Schoenmakers,1993-09-03 Various emerging techniques for automating intelligent functions in the laboratory are described in this book Explanations on how systems work are given and possible application areas are suggested The main part of the book is devoted to providing data which will enable the reader to develop and test his own systems The emphasis is on expert systems however promising developments such as self adaptive systems neural networks and genetic algorithms are also described The book has been written by chemists with a great deal of practical experience in developing and testing intelligent software and therefore offers first hand knowledge Laboratory staff and managers confronted with commercial intelligent software will find information on the functioning possibilities and limitations thereof enabling them to select and use modern software in an optimum fashion Finally computer scientists and information scientists will find a wealth of data on the application of contemporary artificial intelligence techniques

Development of an Intelligent Automated High Performance Liquid Chromatography System Stephen Vance Medlin,1993 *High Performance Liquid Chromatography Fingerprinting Technology of the Commonly-used Traditional Chinese Medicine Herbs* Baochang Cai,Seng Poon Ong,Xunhong Liu,2012 This book provides a comprehensive and up to date account of the HPLC technology and fingerprints of commonly used Chinese herbs It contains HPLC fingerprints of over 40 traditional Chinese medicinal herbs and details of their sources production and quality control The book provides a practical review of the techniques relevant materials and the particular demands for using HPLC in traditional Chinese medicinal herb applications It also covers HPLC methods used to analyze the herbs High performance liquid chromatography HPLC is increasingly used in the field of traditional Chinese medicine for obtaining fingerprints of Chinese medicinal herbs Advantages such as high speed high resolution high sensitivity stability accuracy and automation make it one of the leading techniques used for quality control standardization of planting and new drug development in traditional Chinese medicine To date no other books on HPLC fingerprints of traditional Chinese medicinal herbs have been published in English This is the first book in English devoted to providing readers with state of the art information on HPLC applied in the analysis of traditional Chinese medicinal herbs

High Performance Liquid Chromatography Fingerprinting Technology Of The Commonly-used Traditional Chinese Medicine Herbs Seng Poon Ong,Baochang Cai,Xunhong Liu,2012-02-02 This book provides a comprehensive and

up to date account of the HPLC technology and fingerprints of commonly used Chinese herbs It contains HPLC fingerprints of over 40 traditional Chinese medicinal herbs and details of their sources production and quality control The book provides a practical review of the techniques relevant materials and the particular demands for using HPLC in traditional Chinese medicinal herb applications It also covers HPLC methods used to analyze the herbs High performance liquid chromatography HPLC is increasingly used in the field of traditional Chinese medicine for obtaining fingerprints of Chinese medicinal herbs Advantages such as high speed high resolution high sensitivity stability accuracy and automation make it one of the leading techniques used for quality control standardization of planting and new drug development in traditional Chinese medicine To date no other books on HPLC fingerprints of traditional Chinese medicinal herbs have been published in English This is the first book in English devoted to providing readers with state of the art information on HPLC applied in the analysis of traditional Chinese medicinal herbs

Processing Metabolomics and Proteomics Data with Open Software Robert Winkler, 2020-03-19 Metabolomics and proteomics allow deep insights into the chemistry and physiology of biological systems This book expounds open source programs platforms and programming tools for analysing metabolomics and proteomics mass spectrometry data In contrast to commercial software open source software is created by the academic community which facilitates the direct interaction between users and developers and accelerates the implementation of new concepts and ideas The first section of the book covers the basics of mass spectrometry experimental strategies data operations the open source philosophy metabolomics proteomics and statistics data mining In the second section active programmers and users describe available software packages Included tutorials datasets and code examples can be used for training and for building custom workflows Finally every reader is invited to participate in the open science movement

Relevant Applications of High-Performance Liquid Chromatography in Food, Environmental, Clinical and Biological Fields

Oscar Núñez, 2025-01-29 The growing demand for high throughput separations in food environmental clinical and bioanalytical research has increased the need for methods capable of efficiently analyzing complex matrices with both qualitative and quantitative precision High performance liquid chromatography HPLC is a well established separation technique widely employed in many fields Its versatility of chromatographic separation modes reversed phase normal phase HILIC ion chromatography multidimensional chromatography chromatographic column technologies conventional HPLC columns sub 2 m UHPLC columns or partially porous core shell columns and detection systems ultraviolet visible fluorescence amperometric as well as its coupling with low resolution and high resolution mass spectrometry makes HPLC among the best options to solve emerging analytical problems This book provides a comprehensive overview of new advances and applications of HPLC in environmental food clinical and bioanalytical fields

Trace Environmental Quantitative Analysis Paul R. Loconto, 2020-12-27 A thorough and timely update this new edition presents principles techniques and applications in this sub discipline of analytical chemistry for quantifying traces of potentially toxic organic and inorganic

chemical substances found in air soil fish and water as well as serum plasma urine and other body fluids The author addresses regulatory aspects calibration verification and the statistical treatment of analytical data including instrument detection limits quality assurance quality control sampling and sample preparation and techniques that are used to quantify trace concentrations of organic and inorganic chemical substances Key Features Fundamental principles are introduced for the more significant experimental approaches to sample preparation Principles of instrumental analysis determinative techniques for trace organics and trace inorganics analysis An introduction to the statistical treatment of trace analytical data How to calculate instrument detection limits based on weighted least squares confidence band calibration statistics Includes an updated series of student tested experiments

LC-NMR Nina C. Gonnella, 2020-01-15 The isolation and structural characterization of substances present at very low concentrations as is necessary to satisfy regulatory requirements for pharmaceutical drug degradants and impurities can present scientific challenges The coupling of HPLC with NMR spectroscopy has been at the forefront of cutting edge technologies to address these issues LC NMR Expanding the Limits of Structure Elucidation presents a comprehensive overview of key concepts in HPLC and NMR that are required to achieve definitive structure elucidation with very low levels of analytes Because skill sets from both of these highly established disciplines are involved in LC NMR the author provides introductory background to facilitate readers proficiency in both areas including an entire chapter on NMR theory The much anticipated second edition provides guidance in setting up LC NMR systems discussion of LC methods that are compatible with NMR and an update on recent hardware and software advances for system performance such as improvements in magnet design probe technology and solvent suppression techniques that enable unprecedented mass sensitivity in NMR This edition features methods to quantify concentration and assess purity of isolated metabolites on the micro scale and incorporates computational approaches to accelerate the structure elucidation process The author also includes implementation and application of qNMR and automated and practical use of computational chemistry combined with QM and DFT to predict highly accurate NMR chemical shifts The text focuses on current developments in chromatographic NMR integration with particular emphasis on utility in the pharmaceutical industry Applications include trace analysis analysis of mixtures and structural characterization of degradation products impurities metabolites peptides and more The text discusses novel uses and emerging technologies that challenge detection limits as well future directions for this important technique This book is a practical primary resource for NMR structure determination including theory and application that guides the reader through the steps required for isolation and NMR structure elucidation on the micro scale

Separation Methods in Drug Synthesis and Purification Klara Valko, 2020-06-19 Separation Methods in Drug Synthesis and Purification Second Edition Volume Eight provides an updated on the analytical techniques used in drug synthesis and purification Unlike other books on either separation science or drug synthesis this volume combines the two to explain the basic principles and comparisons of each separation technique New

sections to this volume include enantiomer separation using capillary electrophoresis CE and capillary electrochromatography the computer simulation of chromatographic separation for accelerating method development the application of chromatography and capillary electrophoresis used as surrogates for biological processes and new developments in the established techniques of chromatography and preparative methods Features descriptions and applications of all separation methods used in the pharmaceutical industry Written by the leading scientists in their respective fields providing solutions for a wide range of industrial separation problems encountered within the pharmaceutical industry Thoroughly updated with brand new separation science techniques and the latest developments in the established techniques of chromatography High-Throughput Formulation Development of Biopharmaceuticals Vladimir I. Razinkov, Gerd Kleemann, 2016-09-29 High Throughput Formulation Development of Biopharmaceuticals Practical Guide to Methods and Applications provides the latest developments and information on the science of stable and safe drug product formulations presenting a comprehensive review and detailed description of modern methodologies in the field of formulation development a process starting with candidate and pre formulation screening in its early development phase and then progressing to the refinement of robust formulations during commercialization in the later phases of development The title covers topics such as experiment design automation of sample preparation and measurements high throughput analytics stress inducing methods statistical analysis of large amounts of formulation study data emerging technologies and the presentation of several case studies along with a concluding summary Presents applications of high throughput methodologies to accelerate drug formulation development Provides the latest technologies in the field Includes key statistical approaches such as design of experiment and multivariate data analysis Written by highly respected formulation development experts *Official Gazette of the United States Patent and Trademark Office*, 2005 **Advances in Chromatography, Volume 53** Eli Grushka, Nelu Grinberg, 2016-11-03 For more than four decades scientists and researchers have relied on the Advances in Chromatography series for the most up to date information on a wide range of developments in chromatographic methods and applications For Volume 53 the series editors have invited established well known chemists to offer cutting edge reviews of chromatographic methods with applications in the life sciences The clear presentation of topics and vivid illustrations for which this series has become known makes the material accessible and engaging to analytical biochemical organic polymer and pharmaceutical chemists at all levels of technical skill

Optimization in HPLC Stavros Kromidas, 2021-08-06 Learn to maximize the performance of your HPLC or UHPLC system with this resource from leading experts in the field Optimization in HPLC Concepts and Strategies delivers tried and tested strategies for optimizing the performance of HPLC and UHPLC systems for a wide variety of analytical tasks The book explains how to optimize the different HPLC operation modes for a range of analyses including small molecules chiral substances and biomolecules It also shows readers when and how computational tools may be used to optimize performance

The practice oriented text describes common challenges faced by users and developers of HPLC and UHPLC systems as well as how those challenges can be overcome. Written for first time and experienced users of HPLC technology and keeping pace with recent developments in HPLC instrumentation and operation modes this comprehensive guide leaves few questions unanswered. Readers will also benefit from the inclusion of A thorough introduction to optimization strategies for different modes and uses of HPLC including working under regulatory constraints. An exploration of computer aided HPLC optimization including ChromSwordAuto and Fusion QbD. A treatment of current challenges for HPLC users in industry as well as large and small analytical service providers. Discussions of current challenges for HPLC equipment suppliers. Tailor made for analytical chemists chromatographers pharmacologists toxicologists and lab technicians. Optimization in HPLC Concepts and Strategies will also earn a place on the shelves of analytical laboratories in academia and industry who seek a one stop reference for optimizing the performance of HPLC systems.

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **High Performance Liquid Chromatography Software**

In some sort of inundated with displays and the cacophony of fast communication, the profound energy and emotional resonance of verbal artistry usually diminish in to obscurity, eclipsed by the constant barrage of sound and distractions. Yet, nestled within the lyrical pages of **High Performance Liquid Chromatography Software**, a charming perform of fictional brilliance that impulses with organic feelings, lies an wonderful trip waiting to be embarked upon. Published with a virtuoso wordsmith, that exciting opus manuals visitors on a psychological odyssey, lightly revealing the latent potential and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is central subjects, dissect their fascinating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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