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HANDBOOK OF PHARMACEUTICAL ANALYSIS BY HPLC

Elsevier High pressure liquid chromatography—frequently called high performance liquid chromatography (HPLC or, LC) is the premier analytical technique in pharmaceutical analysis and is predominantly used in the pharmaceutical industry. Written by selected experts in their respective fields, the Handbook of Pharmaceutical Analysis by HPLC Volume 6, provides a complete yet concise reference guide for utilizing the versatility of HPLC in drug development and quality control. Highlighting novel approaches in HPLC and the latest developments in hyphenated techniques, the book captures the essence of major pharmaceutical applications (assays, stability testing, impurity testing, dissolution testing, cleaning validation, high-throughput screening). A complete reference guide to HPLC Describes best practices in HPLC and offers 'tricks of the trade' in HPLC operation and method development Reviews key HPLC pharmaceutical applications and highlights currents trends in HPLC ancillary techniques, sample preparations, and data handling

PHARMACEUTICAL ANALYSIS FOR SMALL MOLECULES

John Wiley & Sons A comprehensive introduction for scientists engaged in new drug development, analysis, and approvals Each year the pharmaceutical industry worldwide recruits thousands of recent science graduates—especially chemistry, analytical chemistry, pharmacy, and pharmaceutical majors—into its ranks. However, because of their limited background in pharmaceutical analysis most of those new recruits find making the transition from academia to industry very difficult. Designed to assist both recent graduates, as well as experienced chemists or scientists with limited regulatory, compendial or pharmaceutical analysis background, make that transition, **Pharmaceutical Analysis for Small Molecules** is a concise, yet comprehensive introduction to the drug development process and analysis of chemically synthesized, small molecule drugs. It features contributions by distinguished experts in the field, including editor and author, Dr. Behnam Davani, an analytical chemist with decades of technical management and teaching experience in compendial, regulatory, and industry. This book provides an introduction to pharmaceutical analysis for small molecules (non-biologics) using commonly used techniques for drug characterization and performance tests. The driving force for industry to perform pharmaceutical analyses is submission of such data and supporting documents to regulatory bodies for drug approval in order to market their products. In addition, related required supporting studies including good laboratory/documentation practices including analytical instrument qualification are highlighted in this book. Topics covered include: Drug Approval Process and Regulatory Requirements (private standards) Pharmacopeias and Compendial Approval Process (public standards) Common methods in pharmaceutical analysis (typically compendial) Common Calculations for assays and impurities and other specific tests Analytical Method Validation, Verification, Transfer Specifications including how to handle out of specification (OOS) and out of trend (OOT) Impurities including organic, inorganic, residual solvents and elemental impurities Good Documentation Practices for regulatory environment Management of Analytical Laboratories Analytical Instrument Qualifications including IQ, OQ, PQ and VQ Due to global nature of pharmaceutical industry, other topics on both regulatory (ICH) and Compendial harmonization are also highlighted. **Pharmaceutical Analysis for Small Molecules** is a valuable working resource for scientists directly or indirectly involved with the drug development process, including analytical chemists, pharmaceutical scientists, pharmacists, and quality control/quality assurance professionals. It also is an excellent text/reference for graduate students in analytical chemistry, pharmacy, pharmaceutical and regulatory sciences.

THE HPLC EXPERT II

FIND AND OPTIMIZE THE BENEFITS OF YOUR HPLC / UHPLC

John Wiley & Sons How can I use my HPLC/UHPLC equipment in an optimal way, where are the limitations of the technique? These questions are discussed in detail in the sequel of the successful "HPLC Expert" in twelve chapters written by experts in the respective fields. The topics encompass - complementary to the first volume - typical HPLC users' problems and questions such as gradient optimization and hyphenated techniques (LC-MS). An important key aspect of the book is UHPLC: For which analytical problem is it essential, what should be considered? Besides presentation of latest developments directly from the main manufacturers, also UHPLC users and independent service engineers impart their knowledge. Consistent with the target groups, the level is advanced, but the emphasis is on practical applications.

THE HPLC EXPERT

POSSIBILITIES AND LIMITATIONS OF MODERN HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

John Wiley & Sons The rapid development of HPLC instrumentation and technology opens numerous possibilities - and entails new questions. Which column should I choose to obtain best results, which gradient fits to my analytical problem, what are recent and promising trends in detection techniques, what is state of the art regarding LC-MS coupling? All these questions are answered by experts in ten self-contained chapters. Besides these more hardware-related and technical chapters, further related areas of interest are covered: Comparison of recent chromatographic data systems and integration strategies, smart documentation, efficient information search in internet, and tips for a successful FDA inspection. This practical approach offers in a condensed manner recent trends and hints, and will also display the advanced reader mistakes and errors he was not aware of so far.

PHARMACEUTICAL VENDORS APPROVAL MANUAL

A COMPREHENSIVE QUALITY MANUAL FOR API AND PACKAGING MATERIAL APPROVAL

CRC Press This book provides stepwise guidance on how to evaluate, audit, qualify and approve an active pharmaceutical ingredient (API) and packaging material manufacturer and supplier to enhance the GMP within the industry. The book will also be beneficial for institutions conducting pharmaceutical technology courses in terms of GMP and GLP applications. The Pharmaceutical Vendors Approval Manual provides readers and front-line health care products manufacturers, R&D management and biotech laboratories all the information they need to know to develop a GMP-oriented industry with trained and skilled personnel and manufacture products that meet GMP and regulatory requirements. This book provides a simple, concise and easy to use reference tool covering basic quality concepts and the elements of vendor's assessment, qualification and approval required by the pharmaceutical educational institutions and professional certification bodies. It is equally relevant to Quality Assurance officers, Quality Control Analysts, Quality Auditors and other personnel involved in GMP/GLP services in the company. The book will also be beneficial for the institutions conducting Pharmaceutical technology study courses in terms of GMP and GLP applications. This book provides readers and front-line health care products manufacturers, R&D management and biotech laboratories all the information they need to know to develop a GMP-oriented industry with trained and skilled personnel and manufacture products that meet GMP and regulatory requirements covers basic quality concepts and the elements of vendor's assessment, qualification and approval required by the pharmaceutical educational institutions and professional certification bodies provides stepwise guidance on how to evaluate, audit, qualify and approve an API and packaging material manufacturer and supplier to enhance the GMP within the industry provides ready to use regulatory documentation, e.g. letter of commitment, questionnaire, SOP, etc. required for API and Packaging Materials contract Provided material can be easily tailored to incorporate changes to add in-house vendor's qualification requirements. Erfan Syed Asif, Ph.D is a Senior Consultant at PharmEng Technology.

ELEMENTAL SPECIATION

NEW APPROACHES FOR TRACE ELEMENT ANALYSIS

Elsevier Science Limited Hardbound. This book provides a comprehensive discussion of the major aspects involved in elemental speciation. Sample preparation, separation techniques, instrumentation and quality assurance are all discussed. In addition, individual chapters are devoted to speciation of environmental samples and speciation of biological, clinical, and nutritional samples. Individual chapters are written by leaders in the field, and the book has been organized so that the reader may learn how to collect a sample and prepare it. Ways to separate and detect analytes of interest, and steps to take to ensure the validity of the measurements are also discussed. This book is unique in its

comprehensive treatment of this subject.

QUANTIFICATION IN LC AND GC

A PRACTICAL GUIDE TO GOOD CHROMATOGRAPHIC DATA

John Wiley & Sons Closing a gap in the current literature by addressing the evaluation and quality assessment of raw data, this practice-oriented guide is clearly divided into three parts. The first describes basic considerations of chromatographic data quality, common errors and potential pitfalls in reading out and quantifying the data. Part two systematically covers the most important chromatographic methods as well as the specific requirements for obtaining good chromatographic data. The final part looks at data quality from the perspective of those regulatory authorities demanding certain standards in data quality, describing in detail best practices. Written with the practitioner in mind, the text not only teaches the mathematical basics but also provides invaluable advice.

OPTIMIZATION IN HPLC

CONCEPTS AND STRATEGIES

John Wiley & Sons 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.

GENETIC ENGINEERING NEWS

GEN.

CHEMICAL INFORMATION AND COMPUTATION

HPLC AND UHPLC FOR PRACTICING SCIENTISTS

John Wiley & Sons A concise yet comprehensive reference guide on HPLC/UHPLC that focuses on its fundamentals, latest developments, and best practices in the pharmaceutical and biotechnology industries Written for practitioners by an expert practitioner, this new edition of HPLC and UHPLC for Practicing Scientists adds numerous updates to its coverage of high-performance liquid chromatography, including comprehensive information on UHPLC (ultra-high-pressure liquid chromatography) and the continuing migration of HPLC to UHPLC, the modern standard platform. In addition to introducing readers to HPLC's fundamentals, applications, and developments, the book describes basic theory and terminology for the novice, and reviews relevant concepts, best practices, and modern trends for the experienced practitioner. HPLC and UHPLC for Practicing Scientists, Second Edition offers three new chapters. One is a standalone chapter on UHPLC, covering concepts, benefits, practices, and potential issues. Another examines liquid chromatography/mass spectrometry (LC/MS). The third reviews the analysis of recombinant biologics, particularly monoclonal antibodies (mAbs), used as therapeutics. While all chapters are revised in the new edition, five chapters are essentially rewritten (HPLC columns, instrumentation, pharmaceutical analysis, method development, and regulatory aspects). The book also includes problem and answer sections at the end of each chapter. Overviews fundamentals of HPLC to UHPLC, including theories, columns, and instruments with an abundance of

tables, figures, and key references Features brand new chapters on UHPLC, LC/MS, and analysis of recombinant biologics Presents updated information on the best practices in method development, validation, operation, troubleshooting, and maintaining regulatory compliance for both HPLC and UHPLC Contains major revisions to all chapters of the first edition and substantial rewrites of chapters on HPLC columns, instrumentation, pharmaceutical analysis, method development, and regulatory aspects Includes end-of-chapter quizzes as assessment and learning aids Offers a reference guide to graduate students and practicing scientists in pharmaceutical, biotechnology, and other industries Filled with intuitive explanations, case studies, and clear figures, HPLC and UHPLC for Practicing Scientists, Second Edition is an essential resource for practitioners of all levels who need to understand and utilize this versatile analytical technology. It will be a great benefit to every busy laboratory analyst and researcher.

AGILE MANAGEMENT FOR SOFTWARE ENGINEERING COMPLETE SELF-ASSESSMENT GUIDE

Createspace Independent Publishing Platform Are there any constraints known that bear on the ability to perform Agile Management for Software Engineering work? How is the team addressing them? In a project to restructure Agile Management for Software Engineering outcomes, which stakeholders would you involve? How much are sponsors, customers, partners, stakeholders involved in Agile Management for Software Engineering? In other words, what are the risks, if Agile Management for Software Engineering does not deliver successfully? How does the organization define, manage, and improve its Agile Management for Software Engineering processes? What are the business goals Agile Management for Software Engineering is aiming to achieve? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, The Art of Service's Self-Assessments empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Agile Management for Software Engineering assessment. All the tools you need to an in-depth Agile Management for Software Engineering Self-Assessment. Featuring 616 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Agile Management for Software Engineering improvements can be made. In using the questions you will be better able to: - diagnose Agile Management for Software Engineering projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Agile Management for Software Engineering and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Agile Management for Software Engineering Scorecard, you will develop a clear picture of which Agile Management for Software Engineering areas need attention. Included with your purchase of the book is the Agile Management for Software Engineering Self-Assessment downloadable resource, which contains all questions and Self-Assessment areas of this book in a ready to use Excel dashboard, including the self-assessment, graphic insights, and project planning automation - all with examples to get you started with the assessment right away. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help.

HOW TO ACCELERATE YOUR INTERNET

A PRACTICAL GUIDE TO BANDWIDTH MANAGEMENT AND OPTIMISATION USING OPEN SOURCE SOFTWARE

Lulu.com

PRINCIPLES OF INSTRUMENTAL ANALYSIS

Cengage Learning PRINCIPLES OF INSTRUMENTAL ANALYSIS is the standard for courses on the principles and applications of modern analytical instruments. In the 7th edition, authors Skoog, Holler, and Crouch infuse their popular text with updated techniques and several new Instrumental Analysis in Action case studies. Updated material enhances the book's proven approach, which places an emphasis on the fundamental principles of operation for each type of instrument, its optimal area of application, its sensitivity, its precision, and its limitations. The text also introduces students to elementary analog and digital electronics, computers, and the treatment of analytical data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

HPLC RICHTIG OPTIMIERT

EIN HANDBUCH FÜR PRAKTIKER

John Wiley & Sons Neben der Methodenentwicklung ist die Optimierung bestehender Methoden eine zentrale Aufgabe im HPLC-Labor. Eine Aufgabe, die heute in immer kürzerer Zeit und kosteneffizient erledigt werden muss. Das Handbuch bietet eine fundierte Hilfe, um diese Herausforderung noch besser zu meistern. International renommierte Autoren wie John W. Dolan, Michael McBrien, Veronika R. Meyer, Uwe D. Neue, Lloyd R. Snyder oder Klaus K. Unger behandeln sowohl die allgemeinen Grundlagen und Strategien der Optimierung als auch die spezifischen Aspekte der unterschiedlichen Techniken wie RP-HPLC, NP-HPLC, Micro- und Nano-HPLC sowie der Kopplungstechniken wie LC-MS. Auch die richtige Säulenauswahl sowie Enantiomerentrennungen gehören zu den behandelten Themen. Die Autoren liefern konkrete, praktische Tipps ebenso wie relevante Hintergrundinformationen. Sie bieten darüber hinaus Einblicke in die Optimierungspraxis sieben international renommierter Firmen verschiedener Branchen. Einige Beiträge stellen die Anwendung gängiger Optimierungssoftware wie DryLab oder ChromSword dar. Das ganze wird abgerundet durch praxisnahe Berichte erfahrener Anwender aus den verschiedenen Anwendungsgebieten, insbesondere aus den Life Sciences, wie beispielsweise Proteomics oder Pharmaentwicklung. Alle Beiträge sind in einem auf das Wesentliche konzentrierten und anwendungsnahen Stil geschrieben. Der Aufbau des Buches mit abgeschlossenen Kapiteln erleichtert das gezielte Nachschlagen.

HANDBOOK OF ADVANCED CHROMATOGRAPHY /MASS SPECTROMETRY TECHNIQUES

Elsevier Handbook of Advanced Chromatography /Mass Spectrometry Techniques is a compendium of new and advanced analytical techniques that have been developed in recent years for analysis of all types of molecules in a variety of complex matrices, from foods to fuel to pharmaceuticals and more. Focusing on areas that are becoming widely used or growing rapidly, this is a comprehensive volume that describes both theoretical and practical aspects of advanced methods for analysis. Written by authors who have published the foundational works in the field, the chapters have an emphasis on lipids, but reach a broader audience by including advanced analytical techniques applied to a variety of fields. Handbook of Advanced Chromatography / Mass Spectrometry Techniques is the ideal reference for those just entering the analytical fields covered, but also for those experienced analysts who want a combination of an overview of the techniques plus specific and pragmatic details not often covered in journal reports. The authors provide, in one source, a synthesis of knowledge that is scattered across a multitude of literature articles. The combination of pragmatic hints and tips with theoretical concepts and demonstrated applications provides both breadth and depth to produce a valuable and enduring reference manual. It is well suited for advanced analytical instrumentation students as well as for analysts seeking additional knowledge or a deeper understanding of familiar techniques. Includes UHPLC, HILIC, nano-liquid chromatographic separations, two-dimensional LC-MS (LCxLC), multiple parallel MS, 2D-GC (GCxGC) methodologies for lipids analysis, and more. Contains both practical and theoretical knowledge, providing core understanding for implementing modern chromatographic and mass spectrometric techniques. Presents chapters on the most popular and fastest-growing new techniques being implemented in diverse areas of research.

POWER7 AND POWER7+ OPTIMIZATION AND TUNING GUIDE

IBM Redbooks This IBM® Redbooks® publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7® and POWER7+™ processors. This advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX® and Linux operating systems, focusing on the more pervasive performance opportunities that are identified, and how to capitalize on them. The technical information was developed by a set of domain experts at IBM. The focus of this book is to gather the right technical information, and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7+ systems that run the AIX or Linux operating systems. This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in-depth knowledge. This optimization work can: Improve the performance of the application that is being optimized for the POWER7 system Carry over improvements to systems that are based on related processor chips Improve performance on other platforms The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7-based servers, which includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs).

CHROMATOGRAPHIC INTEGRATION METHODS

Royal Society of Chemistry The second edition of the popular Chromatographic Integration Methods has been completely revised and updated. Written by an expert with many years'

experience with two of the world's largest manufacturers of computing integrators, it has been expanded to include a new section on validation of integrators in response to regulatory requirements for quality and validation. A new literature survey, additional diagrams and Author Index have also been added. Well illustrated and easily read, this is an excellent source book for those who wish to increase their understanding of integrators. Chromatographic Integration Methods describes and discusses both manual and electronic techniques used, with the aim of aiding analysts to obtain more data from their chromatograms, and assist them with understanding how integrators work so that results are never accepted unquestioningly. As with the first edition, this book will be welcomed by all those in the chromatography field, particularly those at the bench.

DEVELOPMENT OF HEALTHY AND NUTRITIOUS CEREALS: RECENT INSIGHTS ON MOLECULAR ADVANCES IN BREEDING

Frontiers Media SA

RNA PURIFICATION AND ANALYSIS

SAMPLE PREPARATION, EXTRACTION, CHROMATOGRAPHY

John Wiley & Sons This first book on the market covers the many new and important RNA species discovered over the past five years, explaining current methods for the enrichment, separation and purification of these novel RNAs. Building up from general principles of RNA biochemistry and biophysics, this book addresses the practical aspects relevant to the laboratory researcher throughout, while discussing the performance and potential problems of the methods discussed. An appendix contains a glossary with the important terms and techniques used in RNA analysis. By explaining the basic and working principles of the methods, the book allows biochemists and molecular biologists to gain much more expertise than by simply repeating a pre-formulated protocol, enabling them to select the procedure and materials best suited to the RNA analysis task at hand. As a result, they will be able to develop new protocols where needed and optimize and fine-tune the general purpose standard protocols that come with the purification equipment and instrumentation.

PREPARATIVE LIQUID CHROMATOGRAPHY

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.

SOFTWARE-ASSISTED METHOD DEVELOPMENT IN HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

World Scientific '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.

ANALYTICAL CHEMISTRY

A CHEMIST AND LABORATORY TECHNICIAN'S TOOLKIT

John Wiley & Sons A comprehensive study of analytical chemistry providing the basics of analytical chemistry and introductions to the laboratory Covers the basics of a chemistry lab including lab safety, glassware, and common instrumentation Covers fundamentals of analytical techniques such as wet chemistry, instrumental analyses, spectroscopy, chromatography, FTIR, NMR, XRF, XRD, HPLC, GC-MS, Capillary Electrophoresis, and proteomics Includes ChemTech an interactive program that contains lesson exercises, useful calculators and an interactive periodic table Details Laboratory Information Management System a program used to log in samples, input data, search samples, approve samples, and print reports and certificates of analysis

HANDBOOK OF ELEMENTAL SPECIATION

TECHNIQUES AND METHODOLOGY

John Wiley & Sons This international collection of chapters comprehensively covers different aspects of procedures for speciation analysis at all levels starting from sample collection and storage, through sample preparation approaches to render the species chromatographable, principles of separation techniques used in speciation analysis, to the element specific detection. International renowned editors and contributors Includes coverage of electrochemical methods, biosensors for metal ions, radioisotope techniques and direct solid speciation techniques Provides information on quality assurance and risk assessment, and speciation-relevant legislation Each chapter is a stand-alone reference covering a given facet of elemental speciation analysis written by an expert in a given field with the volume as a whole providing an excellent introductory text and reference handbook.

MAKING BETTER DECISIONS USING IBM WEBSHERE OPERATIONAL DECISION MANAGEMENT

IBM Redbooks Decision management is emerging as an important capability for delivering agile business solutions. Decision management is not a solution in its own right, but must be integrated into the solutions or business processes that it supports. In this IBM® Redpapers™ publication, we describe the recommended best practices and integration concepts that use the business events, business rules, and other capabilities of IBM WebSphere® Operational Decision Management V7.5 (WebSphere ODM) to provide better decision making in those solutions and business processes.

XVIII SIMPOSIO DE PLANTAS MEDICINAIS DO BRASIL

LIVRO DE RESUMOS

HPLC COLUMNS

THEORY, TECHNOLOGY, AND PRACTICE

Wiley-VCH An in-depth guide to HPLC column technology High-performance liquid chromatography and its derivative techniques have become the dominant analytical separation tools in the pharmaceutical, chemical, and food industries; environmental laboratories; and therapeutic drug monitoring. Although the column is the heart of the HPLC instrument and essential to its success, until now, no book has focused on the theory and practice of column technology. HPLC Columns provides thorough, state-of-the-art coverage of HPLC column technology for the practicing technician and academician alike. Along with a comprehensive discussion of the chemical and physical processes of the HPLC column, it includes fundamental principles, separation mechanisms and available technologies, column selection criteria, and special techniques. Special features include: * Comprehensive overview of state-of-the-art HPLC column technology * Explanation of the underlying principles of HPLC columns * Methods for selecting columns * Practical advice on using and applying columns, including examples * Section by M. Zoubair El Fallah on methods development * Special techniques, including preparative chromatography, continuous chromatography, and the simulated moving bed * Troubleshooting section HPLC Columns helps laboratory practitioners make better choices in column selection, methods development, and troubleshooting: it is also an excellent textbook for graduate-level courses and HPLC short courses.

APPLICATION OF ANALYTICAL CHEMISTRY TO FOODS AND FOOD TECHNOLOGY

MDPI The application of analytical chemistry to the food sector allows the determination of the chemical composition of foods and the properties of their constituents, contributing to the definition of their nutritional and commodity value. Furthermore, it is possible to study the chemical modifications that food constituents undergo as a result of the treatments they undergo (food technology). Food analysis, therefore, allows us not only to determine the quality of a product or its nutritional value, but also to reveal adulterations and identify the presence of xenobiotic substances potentially harmful to human health. Furthermore, some foods, especially those of plant origin, contain numerous substances with beneficial effects on health. While these functional compounds can be obtained from a correct diet, they can also be extracted from food matrices for the formulation of nutraceutical products or added to foods by technological or biotechnological means for the production of functional foods. On the other hand, the enormous growth of the food industry over the last 50 years has broadened the field of application of analytical chemistry to encompass not only food but also food technology, which is fundamental for increasing the production of all types of food.

INTRODUCTION TO MODERN LIQUID CHROMATOGRAPHY

John Wiley & Sons The latest edition of the authoritative reference to HPLC High-performance liquid chromatography (HPLC) is today the leading technique for chemical analysis and related applications, with an ability to separate, analyze, and/or purify virtually any sample. Snyder and Kirkland's Introduction to Modern Liquid Chromatography has long represented the premier reference to HPLC. This Third Edition, with John Dolan as added coauthor, addresses important improvements in columns and equipment, as well as major advances in our understanding of HPLC separation, our ability to solve problems that were troublesome in the past, and the application of HPLC for new kinds of samples. This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience. The text begins by introducing the reader to HPLC, its use in relation to other modern separation techniques, and its history, then leads into such specific topics as: The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column—the "heart" of the HPLC system Reversed-phase separation, normal-phase chromatography, gradient elution, two-dimensional separation, and other techniques Computer simulation, qualitative and quantitative analysis, and method validation and quality control The separation of large molecules, including both biological and synthetic polymers Chiral separations, preparative separations, and sample preparation Systematic development of HPLC separations—new to this edition Troubleshooting tricks, techniques, and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users, from novices to experts, Introduction to Modern Liquid Chromatography, Third Edition offers the most up-to-date, comprehensive, and accessible survey of HPLC methods and applications available.

WATCH MOVIES, LEARN SCREENWRITING

Erskine uses eight award-winning films to explain how to watch popular movies as a way to learn screenwriting, in this guide geared towards beginner screenwriters.

FOOD ANALYSIS LABORATORY MANUAL

Springer Science & Business Media This second edition laboratory manual was written to accompany Food Analysis, Fourth Edition, ISBN 978-1-4419-1477-4, by the same author. The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic. Most of the laboratory exercises include the following: introduction, reading assignment, objective, principle of method, chemicals, reagents, precautions and waste disposal, supplies, equipment, procedure, data and calculations, questions, and references. This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis.

HPLC METHOD DEVELOPMENT FOR PHARMACEUTICALS

Elsevier High pressure, or high performance, liquid chromatography (HPLC) is the method of choice for checking purity of new drug candidates, monitoring changes during scale up or revision of synthetic procedures, evaluating new formulations, and running control/assurance of the final drug product. HPLC Method Development for Pharmaceuticals provides an extensive overview of modern HPLC method development that addresses these unique concerns. Includes a review and update of the current state of the art and science of HPLC, including theory, modes of HPLC, column chemistry, retention mechanisms, chiral separations, modern instrumentation (including ultrahigh-pressure systems), and sample

preparation. Emphasis has been placed on implementation in a pharmaceutical setting and on providing a practical perspective. HPLC Method Development for Pharmaceuticals is intended to be particularly useful for both novice and experienced HPLC method development chemists in the pharmaceutical industry and for managers who are seeking to update their knowledge. Covers the requirements for HPLC in a pharmaceutical setting including strategies for software and hardware validation to allow for use in a regulated laboratory Provides an overview of the pharmaceutical development process (clinical phases, chemical and pharmaceutical development activities) Discusses how HPLC is used in each phase of pharmaceutical development and how methods are developed to support activities in each phase

AMERICAN LABORATORY

FLUORESCENCE AND PHOSPHORESCENCE SPECTROSCOPY

PHYSICOCHEMICAL PRINCIPLES AND PRACTICE

Elsevier Fluorescence and Phosphorescence Spectroscopy: Physicochemical Principles and Practice deals with the physicochemical principles and applications of fluorescence and phosphorescence spectroscopy in experimental biology and chemistry. Topics covered include the absorption of light by molecules; instrumentation for the measurement of fluorescence and phosphorescence; solvent and acidity effects on electronic spectra; and polarization of fluorescence and phosphorescence. Comprised of four chapters, this book begins with a discussion on photophysical processes in isolated molecules and molecules in solution, paying particular attention to thermal equilibration of electronically excited molecules, phototautomerism, and coordination by metal ions. The next chapter describes the instrumentation for measuring fluorescence and phosphorescence, which consists essentially of a light source to electronically excite the sample; a monochromator to separate the light of desired energy from the source; a sample compartment; a second monochromator to isolate the sample's fluorescence energy from the excitation energy; a photodetector to translate the fluorescent light into an electrical signal; and a readout system such as a galvanometer or a recorder, coupled with an amplifier to determine the intensity of fluorescent light that is emitted. The final chapter is devoted to various applications of fluorescence and phosphorescence spectroscopy, including the analysis of organic and inorganic compounds. This monograph is written primarily for analytical chemists and biological scientists.

TRADITIONAL AND COMPLEMENTARY MEDICINE

BoD - Books on Demand Modern medicine has reached a point where the patient is not treated as a biopsychosocial-spiritual being but rather is seen as a virtual identity consisting of laboratory findings and images. More focus is placed on relieving the symptoms instead of curing the disease. Mostly, patients are turned into lifetime medication-dependent individuals. New medicines are needed to overcome the side effects, complications, resistance, and intolerance caused by pharmacological and interventional therapies. In hopes of drug-free and painless alternative treatments with fewer complications, there has been a trend to revisit traditional methods that have been dismissed by modern medicine. Traditional medicine has to be reevaluated with modern scientific methods to complement and integrate with evidence-based modern medicine.

CHIRAL LIQUID CHROMATOGRAPHY

Springer Science & Business Media While working as a chromatographer in the pharmaceutical industry, it became apparent to the editor that there was a pressing need for a comprehensive reference text for analysts working on the resolution of enantiomers by liquid chromatography (LC). This need arises from the fact that, whereas previously it was very difficult to determine enantiomers by direct means, there is now a wide choice of direct LC methods. At the same time, regulatory authorities have been changing their attitudes towards the administration of pharmaceuticals as racemates, partly because it is now possible to study the individual enantiomers. Clearly this abundance of new information needs to be rationalized. More importantly, the chiral LC systems which are commercially available or readily accessible to the practising chromatographer needed to be reviewed and, to a much greater extent than in existing reviews or books, discussed in terms of their practical application. Accordingly this book is very much orientated towards the practical aspects of these commercially available and readily accessible chiral LC systems. To this end, it is written for practising chromatographers by a team of practising, experienced chromatographers who have spent many years tackling the problems presented by resolving enantiomers by LC. The practical aspects of common chiral LC systems cannot be fully understood if discussed in isolation.

QUALITATIVE AND QUANTITATIVE ANALYSIS OF BIOACTIVE NATURAL PRODUCTS 2018

MDPI Throughout most of history, medicinal plants and their active metabolites have represented a valuable source of compounds used to prevent and to cure several diseases. Interest in natural compounds is still high as they represent a source of novel biologically/pharmacologically active compounds. Due to their high structural diversity and complexity, they are interesting structural scaffolds that can offer promising candidates for the study of new drugs, functional foods, and food additives. Plant extracts are a highly complex mixture of compounds and qualitative and quantitative analyses are necessary to ensure their quality. Furthermore, greener methods of extraction and analysis are needed today. This book is based on articles submitted for publication in the Special Issue entitled "Qualitative and Quantitative Analysis of Bioactive Natural Products" that collected original research and reviews on these topics.

CONFLICT MANAGEMENT IN THE WORKPLACE

HOW TO MANAGE DISAGREEMENTS AND DEVELOP TRUST AND UNDERSTANDING

How to Books Limited Annotation **REVIEWS:** One of the best books I have read on conflict resolution in my 30+ years in the field. Office of Mediation, The World Bank ... contains great ideas, simply explained. Dr Pam Spurr, Psychologist and Life Coach, LBC Radio Offers many tried and trusted approaches to ensure that conflicts are managed so that they are positive and creative rather than a process of disintegration. Sir John Harvey-Jones **AUTHOR BIOG:** Shay and Margaret McConnon are co-founders of People First, an international training and consultancy group that runs courses on 'Winning Relationships in the Workplace'. They work with leading companies in Europe and the USA. **CONTENTS:** About the authors Preface Introduction 1. How the view explains our differences 2. Differences in personality types 3. Fight the difference or celebrate it? 4. Are you building a bridge or a barrier? 5. Understand and manage your feelings 6. Develop your skills and increase your choices 7. Four steps to resolution 8. Preventing conflict Appendices Appendices Bibliography Index Conflict resolution workshop.

GIRLS' EDUCATION IN THE TWENTY-FIRST CENTURY

World Bank Publications Persuasive evidence demonstrates that gender equality in education is central to economic development. Despite more than two decades of accumulated knowledge and evidence of what works in improving gender equality, progress on the ground remains slow and uneven across countries. What is missing? Given that education is a critical path to accelerate progress toward gender equality and the empowerment of women, what is holding us back? These questions were discussed at the global symposium Education: A Critical Path to Gender Equality and Women's Empowerment, which was sponsored by the World Bank in October 2007. Girls' Education in the 21st Century is based on background papers developed for the symposium. The book's chapters reflect the current state of knowledge on education from a gender perspective and highlight the importance of, and challenges to, female education, as well as the interdependence of education and development objectives. The last chapter presents five strategic directions for advancing gender equality in education and their implications for World Bank operations. Girls' Education in the 21st Century will be of particular interest to researchers, educators, school administrators, and policy makers at the global, national, regional, and municipal levels.

GAMP 5

A RISK-BASED APPROACH TO COMPLIANT GXP COMPUTERIZED SYSTEMS

Ispe Headquarters