

Pitfalls And Errors Of Hplc In Pictures

Eventually, you will very discover a further experience and talent by spending more cash. nevertheless when? get you agree to that you require to acquire those all needs gone having significantly cash? Why dont you attempt to get something basic in the beginning? Thats something that will lead you to understand even more not far off from the globe, experience, some places, as soon as history, amusement, and a lot more?

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Pitfalls and Errors of HPLC in Pictures Veronika R. Meyer 2013-02-14 The third edition of this popular problem-solving guide for this widely-used method includes eleven completely new examples and several updated ones, adding up to 100 contributions about pitfalls and errors in HPLC. Each example is presented on a double page with the text on the left-hand and a figure on the right-hand side, true to the motto 'a picture says more than a thousand words'. In addition, the author presents essential fundamentals as well as helpful strategies, such as equipment tests or quality assurance processes. New in this edition * Variability of the standard deviation * Influence of the acid type and concentration in the eluent * Water as an unintentional additive in the mobile phase * Inadequate purity of mobile phase water * Incomplete degassing * Inadequate stabilization of the extraction solvent * Tailing of phosphate compounds in the presence of steel * Different detection properties of diastereomers * Detector overload in ELSD * System suitability test * From repeatability to reproducibility A must-have resource for all users - showing how to use HPLC efficiently and obtain reliable results.

A Little History of the World E. H. Gombrich 2014-10-01 E. H. Gombrich's *Little History of the World*, though written in 1935, has become one of the treasures of historical writing since its first publication in English in 2005. The Yale edition alone has now sold over half a million copies, and the book is available worldwide in almost thirty languages. Gombrich was of course the best-known art historian of his time, and his text suggests illustrations on every page. This illustrated edition of the *Little History* brings together the pellucid humanity of his narrative with the images that may well have been in his mind's eye as he wrote the book. The two hundred illustrations—most of them in full color—are not simple embellishments, though they are beautiful. They emerge from the text, enrich the author's intention, and deepen the pleasure of reading this remarkable work. For this edition the text is reset in a spacious format, flowing around illustrations that range from paintings to line drawings, emblems, motifs, and symbols. The book incorporates freshly drawn maps, a revised preface, and a new index. Blending high-grade design, fine paper, and classic binding, this is both a sumptuous gift book and an enhanced edition of a timeless account of human history.

HPLC Troubleshooting Günter J. Eppert 2003

Mitteilungsblatt Gesellschaft Deutscher Chemiker. Fachgruppe Analytische Chemie 1996

Kürschners deutscher Gelehrten-Kalender 2009 Each volume includes "Wissenschaftliche Zeitschriften."

Fundamentals of Environmental Sampling and Analysis Chunlong Zhang 2007-02-26 An integrated approach to understanding the principles of sampling, chemical analysis, and instrumentation This unique reference focuses on the overall framework and why various methodologies are used in environmental sampling and analysis. An understanding of the underlying theories and principles empowers environmental professionals to select and adapt the proper sampling and analytical protocols for specific contaminants as well as for specific project applications. Covering both field sampling and laboratory analysis, Fundamentals of Environmental Sampling and Analysis includes: A review of the basic analytical and organic chemistry, statistics, hydrogeology, and environmental regulations relevant to sampling and analysis An overview of the fundamentals of environmental sampling design, sampling techniques, and quality assurance/quality control (QA/QC) essential to acquire quality environmental data A detailed discussion of: the theories of absorption spectroscopy for qualitative and quantitative environmental analysis; metal analysis using various atomic absorption and emission spectrometric methods; and the instrumental principles of common chromatographic and electrochemical methods An introduction to advanced analytical techniques, including various hyphenated mass spectrometries and nuclear magnetic resonance spectroscopy With real-life case studies that illustrate the principles plus problems and questions at the end of each chapter to solidify understanding, this is a practical, hands-on reference for practitioners and a great textbook for upper-level undergraduates and graduate students in environmental science and engineering.

Travelers' Malaria Patricia Schlagenhauf-Lawlor 2008 Travelers' Malaria is considered an essential resource for practitioners of travel medicine. This updated book focuses on the epidemiology, prevention and treatment of malaria in non-immune travelers and immigrants. Each chapter is an up-to-date monograph (with an abstract) and contains detailed references to published literature as well as to appropriate web sites. The purpose of the book is to serve as a reference for specialists in the field and for any practitioner who may confront the complexities of caring for malaria-exposed travelers in both pre- and post-travel settings. Travelers' Malaria contains 26 chapters.

The Image of the City Kevin Lynch 1964-06-15 The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

Quantification in LC and GC Stavros Kromidas 2009-10-12 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.

Encyclopedia of Chromatography Jack Cazes 2009-10-12 Thoroughly revised and expanded, the third

edition of the Encyclopedia of Chromatography is an authoritative source of information for researchers in chemistry, biology, physics, engineering, and materials science. This quick reference and guide to specific chromatographic techniques and theory provides a basic introduction to the science and techn

Der HPLC-Schrauber Werner Röpke 2014-01-16 Probe ins Gerät stellen, Knopf drücken, Ergebnis erhalten - so reibungslos verläuft der Laboralltag mit HPLC-Geräten selten. Oft sind es Kleinigkeiten, die zu Störungen führen, und nicht immer muss der Kundendienst sofort bestellt werden. Wer weiß, an welchen Teilen geschraubt werden darf und an welchen nicht, kann kleine Probleme selbst beheben - leicht, schnell, ohne großen Kostenaufwand. Mit dem gesammelten Wissen aus dreißig Jahren Serviceerfahrung führt der HPLCSchrauber den Anwender an Aufbau und Funktionsweise seines Gerätes heran und verzichtet dabei bewusst auf theoretischen Ballast. Stattdessen zeigen wertvolle Hinweise, die so nicht in den Handbüchern der Hersteller zu finden sind, wie man Fehlerquellen aufdeckt und beseitigt. Aus der Praxis für die Praxis - für alle Schrauberinnen und Schrauber, die gern selbst zum Werkzeug greifen, wenn das HPLC-Gerät mal wieder nicht so funktioniert, wie es soll

Book Review Index 2003 Vols. 8-10 of the 1965-1984 master cumulation constitute a title index.

Pitfalls and Errors of HPLC in Pictures Veronika Meyer 2006-03-20 The complexity of the HPLC method allows on one side a wide variety of usage. On the other side it is also a source of possible errors. This book does not only list them, but illustrate them with concrete examples. The topics were presented in a clearly arranged style: a brief text with a corresponding figure. Chemists and laboratory assistants get here numerous hints how correct and reliable results could be transposed in daily laboratory work.

The HPLC Expert II Stavros Kromidas 2017-01-05 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.

Practical Methods in Cardiovascular Research Stefan Dhein 2006-02-28 Scientists working or planning to work in the field of cardiovascular research will welcome Methods in Cardiovascular Research as the reference book they have been waiting for. Not only general aspects of cardiovascular research are well presented but also detailed descriptions of methods, protocols and practical examples. Written by leading scientists in their field, chapters cover classical methods such as the Langendorff heart or working heart models as well as numerous new techniques and methods. Newcomers and experienced researchers alike will benefit from the troubleshooting guide in each chapter, the extensive reference lists for advanced reading and the great practical experience of the authors. Methods in Cardiovascular Research is a "must have" for anybody with an interest in cardiovascular research.

Chemical Abstracts 2002

Introducing Microsoft Power BI Alberto Ferrari 2016-07-07 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Introducing Microsoft Power BI enables you to evaluate when and how to use Power BI. Get inspired to improve business processes in your company by leveraging the available analytical and collaborative features of this environment. Be sure to watch for the publication of Alberto Ferrari and Marco Russo's upcoming retail book, *Analyzing Data with Power BI and Power Pivot for Excel* (ISBN 9781509302765). Go to the book's page at the Microsoft Press Store here for more details:<http://aka.ms/analyzingdata/details>. Learn more about Power BI at <https://powerbi.microsoft.com/>.

Analytical Chemistry in a GMP Environment James M. Miller 2000-05 How to hone your analytical skills and obtain high-quality data in the era of GMP requirements With increased regulatory pressures on the pharmaceutical industry, there is a growing need for capable analysts who can ensure appropriate scientific practices in laboratories and manufacturing sites worldwide. Based on Johnson & Johnson's acclaimed in-house training program, this practical guide provides guidance for laboratory analysts who must juggle the Food and Drug Administration's good manufacturing practices (GMP) rules with rapidly changing analytical technologies. Highly qualified industry experts walk readers step-by-step through the concepts, techniques, and tools necessary to perform analyses in an FDA-regulated environment, including clear instructions on all major analytical chemical methods-from spectroscopy to chromatography to dissolution. An ideal manual for formal training as well as an excellent self-study guide, *Analytical Chemistry in a GMP Environment* features: * The drug development process in the pharmaceutical industry * Uniform and consistent interpretation of GMP compliance issues * A review of the role of statistics and basic topics in analytical chemistry * An emphasis on high-performance liquid chromatographic (HPLC) methods * Chapters on detectors and quantitative analysis as well as data systems * Methods for ensuring that instruments meet standard operating procedures (SOP) requirements * Extensive appendixes for unifying terms, symbols, and procedural information

HPLC Methods for Recently Approved Pharmaceuticals George Lunn 2005-05-06 An indispensable resource for busy researchers Your time is valuable-too valuable to spend hunting through the technical literature in search of the right HPLC assay techniques for your projects. With *HPLC Methods for Recently Approved Pharmaceuticals*, you'll quickly identify and replicate the ideal procedures for your project needs, without having to refer to original source publications. More of your time can then be spent in the lab, not the library. Covering the relevant world literature through 2003, this book picks up where Dr. Lunn's acclaimed *HPLC Methods for Pharmaceutical Analysis* left off. It arms you with established HPLC assay techniques for hundreds of newly approved drugs, as well as drugs for which assay methods were only recently developed. Combining detailed descriptions of procedures with specially annotated references, this practical handbook gives you: * HPLC methods for 390 commonly prescribed pharmaceutical compounds * Various procedures for each drug listed together-making it easy to mix and match for customized approaches * Methods for drugs in biological fluids and for bulk and formulated drugs * Chemical structures, molecular weights and formulas, and CAS Registry Numbers * Cross-references to The Merck Index * Retention times of other drugs that can be assayed using the same methods

pH-Messung Ralf Degner 2012-03-14 Ein Buch für Praktiker, das auch dem erfahrenen Profi noch einiges Neues bietet. Themen wie die Kalibrierung und die Qualitätssicherung werden Sie aus einem völlig neuen Blickwinkel betrachten. Anwendung: Sie erhalten eine Vielzahl an Beispielen für die praktische pH-Messung in den verschiedensten Materialien, sei es die Online-Messung im Abwasser, die Kontrollmessung von Textilien oder die Profil-Messung in Seen. Empfehlungen zu allen Komponenten

der Messeinrichtung machen das Buch auch für die Beschaffung zu einer wertvollen Unterlage. Grundlagen: Sie erhalten eine Einführung darüber, was der pH-Wert ist, wie die Messkette funktioniert und wie sich Störungen auswirken. Sie erfahren alles, was nötig ist, um das Verhalten einer pH-Messkette richtig beurteilen zu können. Qualitätssicherung: Das Umsetzen der Prüfmittelüberwachung beeinflusst die bisher gewohnten Verfahrensabläufe erheblich. Lesen Sie wie die Qualitätssicherung speziell für die pH-Messung abläuft und welche Unsicherheit Ihre Messergebnisse haben können. Dieses Buch ist ein 'Muss' für alle, die * in irgend einer Weise mit pH-Messung zu tun haben * Normen, Gebrauchs- und Prüfanweisungen für die pH-Messung erstellen * pH-Messeinrichtungen herstellen.

The HPLC Expert Stavros Kromidas 2016-04-01 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.

Verzeichnis lieferbarer Bücher 2002

Modern Experimental Biochemistry Rodney F. Boyer 2000 This successful text provides students majoring in biochemistry, chemistry, biology, and related fields with a modern and complete experience in experimental biochemistry. Its unique two-part organization offers flexibility to accommodate various requirements of the course, and allows students to reference detailed theory sections for clarification during labs. Part I, Theory and Experimental Techniques, provides in-depth theoretical discussion organized around important techniques. A valuable reference for instructors and students, it's particularly useful to instructors who prefer to use their own customized experiments. Part II, Experiments, offers optimum flexibility through 15 tested experiments designed to accommodate the capabilities of laboratories and students at most four-year schools. Alternate methods are suggested and labs may be divided into manageable hour segments.

The HPLC Expert Stavros Kromidas 2016-08-08 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.

Paper Towns John Green 2013 Quentin Jacobson has spent a lifetime loving Margo Roth Spiegelman from afar. So when she cracks open a window and climbs into his life - dressed like a ninja and summoning him for an ingenious campaign of revenge - he follows. After their all-nighter ends, Q arrives at school to discover that Margo has disappeared.

Practical High-Performance Liquid Chromatography Veronika Meyer 1998 Practical High-Performance Liquid Chromatography Third Edition Veronika R. Meyer Swiss Federal Laboratories for Materials Testing and Research, St. Gallen, Switzerland Veronika Meyer's book is a classic HPLC text and remains one of the few titles on general HPLC. Following on from the excellent success of the first two editions, this third edition continues to provide postgraduate students using HPLC and users of HPLC in industry/pharmaceuticals with a unified approach to HPLC and an equal treatment of the theory and practice of HPLC. This edition provides numerous additions and updated material, including:
* 10 out of 26 chapters substantially revised * Synopsis of the most important formulas * Inclusion of chapters on solvent properties and on instrument tests * Completely rewritten chapter on pumps * Updated figures and references

The Turn-Around, Upside-Down Alphabet Book 2004-06-22 An alphabet book in which each letter becomes three different objects as the book is turned different directions, as when A becomes a bird's beak, a drippy ice cream cone, and the point of a star.

Successful Scientific Writing Janice R. Matthews 2007-10-11 The detailed, practical, step-by-step advice in this user-friendly guide will help students and researchers to communicate their work more effectively through the written word. Covering all aspects of the writing process, this concise, accessible resource is critically acclaimed, well-structured, comprehensive, and entertaining. Self-help exercises and abundant examples from actual typescripts draw on the authors' extensive experience working both as researchers and with them. Whilst retaining the user-friendly and pragmatic style of earlier editions, this third edition has been updated and broadened to incorporate such timely topics as guidelines for successful international publication, ethical and legal issues including plagiarism and falsified data, electronic publication, and text-based talks and poster presentations. With advice applicable to many writing contexts in the majority of scientific disciplines, this book is a powerful tool for improving individual skills and an eminently suitable text for classroom courses or seminars.

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen 1996

Protein Purification Jan-Christer Janson 2012-01-03 The authoritative guide on protein purification—now completely updated and revised Since the Second Edition of Protein Purification was published in 1998, the sequencing of the human genome and other developments in bioscience have dramatically changed the landscape of protein research. This new edition addresses these developments, featuring a wealth of new topics and several chapters rewritten from scratch. Leading experts in the field cover all major biochemical separation methods for proteins in use today, providing professionals in biochemistry, organic chemistry, and analytical chemistry with quick access to the latest techniques. Entirely new or thoroughly revised content includes: High-resolution reversed-phase liquid chromatography Electrophoresis in gels Conventional isoelectric focusing in gel slabs and capillaries and immobilized pH gradients Affinity ligands from chemical and biological combinatorial libraries Membrane separations Refolding of inclusion body proteins from *E. coli* Purification of PEGylated proteins High throughput screening techniques in protein purification The history of protein chromatography

Illustrated Pocket Dictionary of Chromatography Paul C. Sadek 2004-07-30 Provides concise definitions, illustrations, formulas, and all of the other information that you need in a laboratory chromatography reference The Illustrated Pocket Dictionary of Chromatography offers the perfect

quick reference to the parameters, systems, and components that support successful chromatographic separations. Concise, practical, and filled with detailed drawings, diagrams, and photographs, this pocket dictionary is designed for easy use in the laboratory. It provides a complete, up-to-date reference on analytical techniques such as gas chromatography, high-performance liquid chromatography, thin layer chromatography, and capillary electrophoresis as well as preparation techniques such as solid phase extraction and microextraction. The Illustrated Pocket Dictionary of Chromatography features: Explanations of key concepts Equations and formulas Parameters High-quality photographs of instruments, equipment, and components References for further research Explanations of common acronyms Ideal for the working chemist or technician in pharmaceutical, industrial, forensic, government, or other lab settings, the Illustrated Pocket Dictionary of Chromatography is also appropriate as a supplemental reference for analytical chemistry courses and labs. Students and analysts alike will find this compact yet comprehensive resource a valuable companion to their work in chromatography.

Practical Introduction to GC-MS Analysis with Quadrupoles Michael Oehme 1998

Chromatography Erich Heftmann 2004

Lehrbuch der Quantitativen Analyse Daniel C. Harris 2014-02-18 Dieses Lehrbuch bietet eine umfassende Einführung in die moderne chemische Labor-Analytik. Es führt in die theoretischen Grundlagen ein und stellt immer wieder die Bezüge zur Anwendung im Labor her. Die besondere Bedeutung der Analytik in Chemie-, Bio- und Umweltwissenschaften werden mit Nachdruck deutlich gemacht. In den Kapiteln fallen neben flüssig geschriebenen Texten und anschaulichen Graphiken vor allem Boxen mit interessanten Anwendungsbeispielen, kurzen Versuchsbeschreibungen, zusammenfassenden Abschnitten zur Rekapitulation des Gelernten und unzähligen Übungen mit teils ausführlichen, teils knappen Antworten auf. Alle modernen Techniken finden Erwähnung. Eine englischsprachige Internet-Seite ergänzt Tutorien, Arbeitsblätter und relevante Journals.

Method Validation in Pharmaceutical Analysis Joachim Ermer 2006-03-06 Adopting a practical approach, the authors provide a detailed interpretation of the existing regulations (GMP, ICH), while also discussing the appropriate calculations, parameters and tests. The book thus allows readers to validate the analysis of pharmaceutical compounds while complying with both the regulations as well as the industry demands for robustness and cost effectiveness. Following an introduction to the basic parameters and tests in pharmaceutical validation, including specificity, linearity, range, precision, accuracy, detection and quantitation limits, the text focuses on a life-cycle approach to validation and the integration of validation into the whole analytical quality assurance system. The whole is rounded off with a look at future trends. With its first-hand knowledge of the industry as well as regulating bodies, this is an invaluable reference for analytical chemists, the pharmaceutical industry, pharmacutists, QA officers, and public authorities.

Acta Hydrochimica Et Hydrobiologica 1997

Практическая высокоэффективная жидкостная хроматография Вероника Р. Майер 2022-04-01 Представляем читателю 5-е издание книги, которое расширено за счет современных методов и оборудования. В книге многое доработано, добавлено большое количество ссылок. Те места в тексте, где не хватало информации о современном положении дел в ВЭЖХ или нужны были дополнительные разъяснения, снабжены примечаниями переводчиков, также добавлены ссылки на соответствующую литературу. В издание включена новая тема – контроль качества. Два

раздела в приложениях были обновлены и расширены Бруно И. Ленди – раздел о тестировании хроматографической системы и раздел о выявлении и устранении неисправностей. Были написаны некоторые новые разделы. Книга отличается простотой изложения и, что не менее важно, такими же простыми и понятными иллюстрациями, значительно облегчающими понимание излагаемого материала. Несомненное достоинство книги – множество практических задач, которые автор предлагает решить начинающему хроматографисту в ходе обучения. Издание рекомендовано начинающим изучать высокоэффективную жидкостную хроматографию (ВЭЖХ).

Practical High-Performance Liquid Chromatography Veronika R. Meyer 2010-05-17 Jump into the HPLC adventure! Three decades on from publication of the 1st German edition of Veronika Meyer's book on HPLC, this classic text remains one of the few titles available on general HPLC aimed at practitioners. New sections on the following topics have been included in this fifth edition: Comparison of HPLC with capillary electrophoresis How to obtain peak capacity van Deemter curves and other coherences Hydrophilic interaction chromatography Method transfer Comprehensive two-dimensional HPLC Fast separations at 1000 bar HPLC with superheated water In addition, two chapters on the instrument test and troubleshooting in the appendix have been updated and expanded by Bruno E. Lendi, and many details have been improved and numerous references added. A completely new chapter is presented on quality assurance covering: Is it worth the effort? Verification with a second method Method validation Standard operating procedures Measurement uncertainty Qualifications, instrument test, and system suitability test The quest for quality Reviews of earlier editions "That this text is written by an expert in both the practice and teaching of HPLC is evident from the first paragraph....not only an enjoyable, fascinating and easy read, but a truly excellent text that has and will serve many teachers, students and practitioners very well." —The Analyst "...provides essential information on HPLC for LC practitioners in academia, industry, government, and research laboratories...a valuable introduction." - American Journal of Therapeutics

Chromatography James M. Miller 2005-12-16 The first edition of Chromatography: Concepts and Contrasts, published in 1988, was one of the first books to discuss all the different types of chromatography under one cover. The second edition continues with these principles but has been updated to include new chapters on sampling and sample preparation, capillary electrophoresis and capillary electrochromatography (CEC), chromatography with mass spec detection, and industrial and governmental practices in regulated industries. Covers extraction, solid phase extraction (SPE), and solid phase microextraction (SPME), and introduces mass spectrometry Updated with the latest techniques in chromatography Discusses both liquid chromatography (LC) and gas chromatography (GC)

Chromatography E. Heftmann 2004-04-16 Chromatography has emerged as the most important and versatile analytical method. The book is not only an updated version of Heftmann's classical text, but it covers areas of future importance, such as microfluidics and computer resources. Under his experienced guidance, authorities in each field have contributed their practical experience to an integrated treatment of modern micro analysis. In Part A the theoretical basis of individual separation methods is explained and the technical aspects are illustrated. It includes the theory of gas and liquid chromatography as well as specific chromatographic techniques, such as size-exclusion, planar, ion, and affinity chromatography as well as various electrokinetic separation techniques. Microfluidics are covered for the first time and useful sources of analytical instruments are listed and evaluated. 1. Each chapter written by an authority 2. Thorough treatment of the theoretical basis of separation methods 3. Practical guide for performing analyses

