

Beginners To Liquid Chromatography Waters Series

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Beginners To Liquid Chromatography Waters

Waters Corp. is a specialty measurement company which engages in analytical workflow solutions involving liquid chromatography, mass spectrometry and thermal analysis innovations. It operates ...

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For beginners, it can seem like a good idea (and an exciting prospect) to buy a company that tells a good story to ...

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

The Beginners Guide to UPLC: Ultra-Performance Liquid Chromatography, is a 52-page book designed to provide new, existing and potential UPLC users the ability to understand how UPLC technology works, how to be successful with it, and how it can provide impactful results within organizations. Looking for something else? Learn a new technique or technology with the Waters Primers Series, view other titles available here: <http://www.wiley.com/go/waters>

Through over 150 full color diagrams and straight forward text, readers will understand the power and usefulness of solid-phase extraction and how it helps solve sample preparation challenges. This 212 page book covers many topics including SPE device formats, sorbent considerations, mobile phase selection, and troubleshooting. A must read for anyone starting out in analytical chromatography as well as seasoned chemists looking to add solid-phase extraction to their skills set. Looking for something else? Learn a new technique or technology with the Waters Primers Series, view other titles available here: <http://www.wiley.com/go/waters>

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.

Since its commercial introduction in 2004, UHPLC (Ultra-High Performance Liquid Chromatography) has begun to replace conventional HPLC in academia and industry and interest in this technique continues to grow. Both the increases in speed and resolution make this an attractive method, particularly to the life sciences and more than 1500 papers have been written on this strongly-evolving topic to date. This book provides a solid background on how to work with UHPLC and its application to the life sciences. The first part of the book covers the basics of this approach and the specifics of a UHPLC system, providing the reader with a solid background to working properly with such a system. The second part examines the application of UHPLC to the life sciences, with a focus on drug analysis strategies. UHPLC-MS, a key technique in pharmaceutical and toxicological analyses, is also examined in detail. The editors (Davy Guillaume and Jean-Luc Veuthey) were some of the earliest adopters of UHPLC and have published and lectured extensively on this topic. Between them they have brought together an excellent team of contributors from Europe and the United States, presenting a wealth of expertise and knowledge. This book is an essential handbook for anyone wishing to adopt an UHPLC system in either an academic or industrial setting and will benefit postgraduate students and experienced workers alike.

A comprehensive yet concise guide to Modern HPLC Written for practitioners by a practitioner, Modern HPLC for Practicing Scientists is a concise text which presents the most important High-Performance Liquid Chromatography (HPLC) fundamentals, applications, and developments. It describes basic theory and terminology for the novice, and reviews relevant concepts, best practices, and modern trends for the experienced practitioner. Moreover, the book serves well as an updated reference guide for busy laboratory analysts and researchers. Topics covered include: HPLC operation Method development Maintenance and troubleshooting Modern trends in HPLC such as quick-turnaround and "greener" methods Regulatory aspects While broad in scope, this book focuses particularly on reversed-phase HPLC, the most common separation mode, and on applications for the pharmaceutical industry, the largest user segment. Accessible to both novice and intermediate HPLC users, information is delivered in a straightforward manner illustrated with an abundance of diagrams, chromatograms, tables, and case studies, and supported with selected key references and Web resources. With intuitive explanations and clear figures, Modern HPLC for Practicing Scientists is an essential resource for practitioners of all levels who need to understand and utilize this versatile analytical technology.

A practical guide to using and maintaining an LC/MS system The combination of liquid chromatography (LC) and mass spectrometry (MS) has become the laboratory tool of choice for a broad range of industries that require the separation, analysis, and purification of mixtures of organic compounds. LC/MS: A Practical User's Guide provides LC/MS users with an easy-to-use, hands-on reference that focuses on the practical applications of LC/MS and introduces the equipment and techniques needed to use LC/MS successfully. Following a thorough explanation of the basic components and operation of the LC/MS system, the author presents empirical methods for optimizing the techniques, maintaining the instrumentation, and choosing the appropriate MS or LC/MS analyzer for any given problem. LC/MS covers everything users need to know about: The latest equipment, including quadrupole, time-of-flight, and ion trap analyzers Cutting-edge processes, such as preparing HPLC mobile phases and samples; handling and maintaining a wide variety of silica, zirconium, and polymeric separation columns; interpreting and quantifying mass spectral data, and using MS interfaces Current and future applications in the pharmaceutical and agrochemical industries, biotechnology, clinical research, environmental studies, and forensics An accompanying PowerPoint® slide-set on CD-ROM provides vital teaching tools for instructors and new equipment operators. Ample illustrations and easy access to the text is designed to help students and practitioners acquire optimum proficiency in this powerful and rapidly advancing analytical application.

Written for practitioners in both the drug and biotechnology industries, the Handbook of Analytical Validation carefully compiles current regulatory requirements on the validation of new or modified analytical methods. Shedding light on method validation from a practical standpoint, the handbook contains practical, up-to-date guidelines for analyti

Most research and all publications in mass spectrometry address either applications or practical questions of procedure. This book, in contrast, discusses the fundamentals of mass spectrometry. Since these basics (physics, chemistry, kinetics, and thermodynamics) were worked out in the 20th century, they are rarely addressed nowadays and young scientists have no opportunity to learn them. This book reviews a number of useful methods in mass spectrometry and explains not only the details of the methods but the theoretical underpinning.

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