# Mass Spectrometry Handbook

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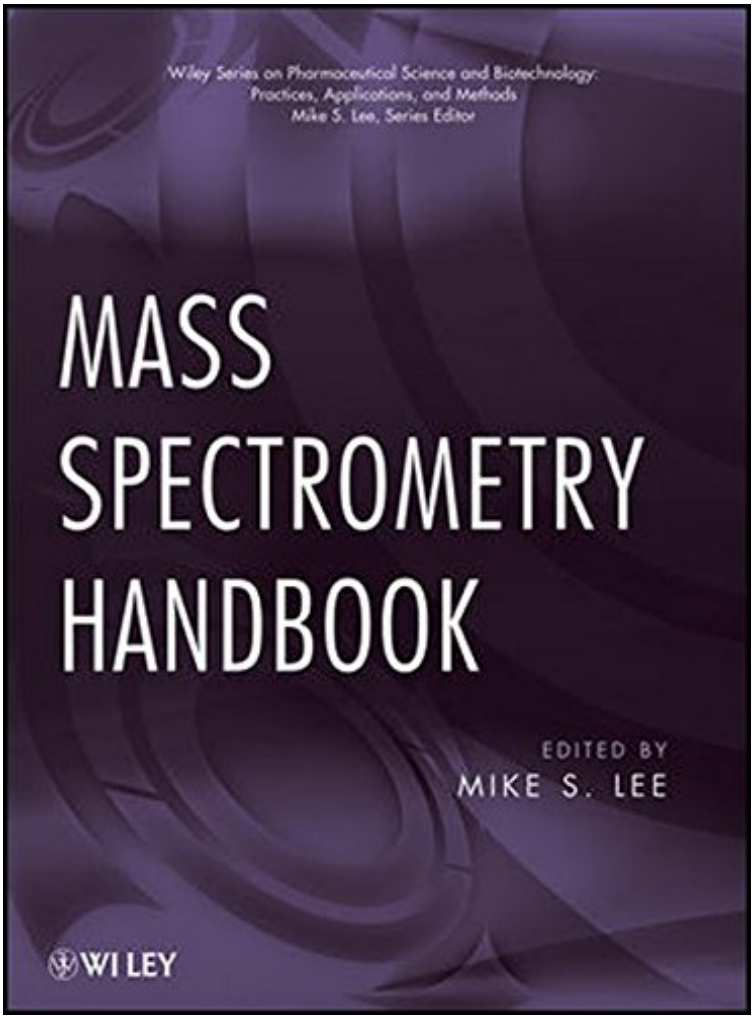




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**From Wiley : Mass Spectrometry Handbook** before purchasing it in order to gage whether or not it would be worth my time, and all praised Mass Spectrometry Handbook:

Due to its enormous sensitivity and ease of use, mass spectrometry has grown into the analytical tool of choice in most industries and areas of research. This unique reference provides an extensive library of methods used in mass spectrometry, covering applications of mass spectrometry in fields as diverse as drug discovery, environmental science, forensic science, clinical analysis, polymers, oil composition, doping, cellular research, semiconductor, ceramics, metals and alloys, and homeland security. The book provides the reader with a protocol for the technique described (including sampling methods) and explains why to use a particular method and not others. Essential for MS

specialists working in industrial, environmental, and clinical fields.

In summary, this handbook presents research from a variety of areas tied together by the common thread of mass spectrometry. The authors present their works in a manner that is accessible to beginning researchers and include sufficient references to allow in depth exploration of the topic. More seasoned scientists could also benefit from this book as they venture into new areas of research. (Journal of American Society for Mass Spectrometry, 6 October 2012)From the Back CoverEnables readers to select and implement the most effective mass spectrometry methods For decades, mass spectrometry has been the dominant force in analytical chemistry, offering unparalleled levels of sensitivity and selectivity for trace analysis and an impressive range of applications across numerous research disciplines. Now in one expertly written, edited, and organized reference, the Mass Spectrometry Handbook brings together the best tested and proven mass spectrometry methods available. The Handbook provides a unique reference that allows for easy access to a variety of real-world applications that involve mass spectrometry. Each chapter in the Handbook provides essential background and history, detailed analytical methodology, and valuable references. Readers will obtain a step-by-step guide through the most popular and effective methods for each application. The exciting applicationsstarting with life sciences and culminating with specialized analytical techniquesare featured: Biotechnology/Proteins Environmental Pharmaceutical Geological Clinical Analysis Archaeology Forensics Surface Analysis Space Exploration Polymers Homeland Security Analytical Techniques Food Analysis Each chapter has been written by one or more leading international experts in the field of mass spectrometry. These authors have thoroughly examined the current literature in order to present the state of the technology. Moreover, based on their own firsthand laboratory experience, they explain why particular methods work or don't work for particular research objectives. References at the end of each chapter serve as a gateway to the most important studies in the field. With its tremendous breadth and depth of coverage, the Mass Spectrometry Handbook is an excellent resource for practicing mass spectrometrists as well as for novices who want to quickly master the many applications and methods of mass spectrometry.About the AuthorMike S. Lee is President of Milestone Development Services where he consults and develops workshops and symposia to support industry with innovative technologies and solutions. His research interests include the application of mass spectrometry for the analysis of proteins, natural products, drug metabolites, impurities, and degradants. Recently, he has been involved in the development of automated orthogonal control systems for electrospray ionization and the development of digital separation devices for sampling, separation, and enrichment.