

LC/MS: A Practical User's Guide

By Marvin C. McMaster

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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. Abundantly illustrated and easily accessible, the text is designed to help students and practitioners acquire optimum proficiency in this powerful and rapidly advancing analytical application.

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LC/MS: A Practical User's Guide By Marvin C. McMaster Bibliography

- Sales Rank: #860167 in Books
- Published on: 2005-08-10
- Original language: English
- Number of items: 1
- Dimensions: 9.70" h x .65" w x 6.30" l, .99 pounds
- Binding: Hardcover
- 184 pages

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