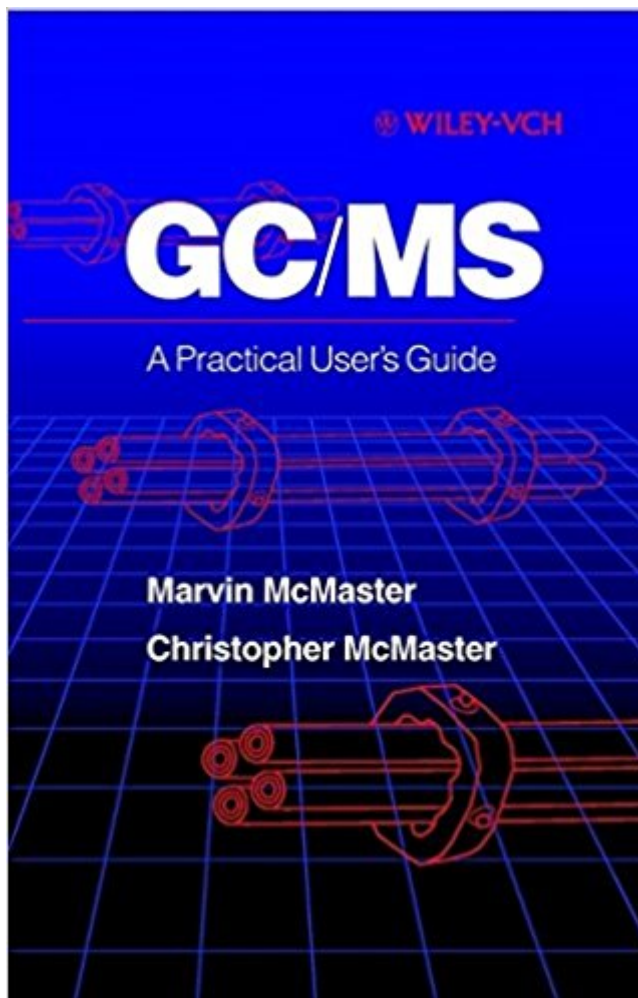




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GC/MS: A Practical User's Guide



Synopsis

A unique practical guide to building, using, and maintaining a complete GC/MS system. Though gas chromatography/mass spectrometry (GC/MS) is one of the most effective and popular methods of separating, identifying, and quantifying compounds in complex mixtures, there have been no comprehensive handbooks to date that clearly explain the setup and maintenance of a functional GC/MS system. Now Marvin and Christopher McMaster have created the hands-on resource that researchers and students need to get their own systems up and running quickly. Covering everything from necessary components to tuning, troubleshooting, and processing data, it allows even those with little prior knowledge of GC/MS to perform their own analyses and gather the data they require. GC/MS: A Practical User's Guide contains:

- * Full coverage of vital equipment, including the function, costs, and advantages of both desktop and floor-standing systems
- * A walkthrough of a basic GC/MS analysis and an examination of key methods of structural data interpretation
- * Extensive information on GC/MS system optimization
- * An exploration of the various research and environmental uses of GC/MS systems
- * An extended section on liquid chromatography/mass spectrometry to enhance comprehension of the gas method.

For organic, analytical, clinical, environmental, and forensic chemists in all types of laboratories-and for students in all of these specialties -this book will be an invaluable companion for years to come.

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Customer Reviews

Gas chromatography/mass spectrometry (GC/MS) is a highly popular analytical system used by

organic chemists and analytical chemists in research and in professional analytical labs, including environmental labs. It is used to separate, identify, and quantify individual compounds and substances. Chromatography was used to identify the ingredients of the World Trade Center bomb and was one the main reasons for the quick arrest of the suspects. This book provides information on using, maintaining, and troubleshooting analytical instrument systems in operations laboratories. It contains practical tips based on actual experience, and only enough theory to show the operational variables and how to control them. Readers will gain an understanding of the components in their systems and get them up and running more rapidly.

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Excellent starting guide to GC-MS. Essential is any chemists library.

For a book that has been through a number of revisions over several years one would expect accuracy, credibility and efficacy. Sadly this book fails on every count. It starts by listing the masses of simple molecules incorrectly ($O_2 = 34$) and continues with poorly drawn diagrams and overly wordy explanation. I can find little up to date in this 'new' release, it really is just a poor rehash of dated material. As an experienced mass spectrometrists I hoped this book would serve as a nice

introduction to the field of GC/MS for new staff. Sadly it was received by new colleagues as dated and with little credibility. Save yourself \$60 and try Wikipedia instead.

GC/MS should be helpful to the novice or student who has never used GC-MS before and who has had minimal experience with GC. It is a little disappointing that about 20% of the text covers material about GC that any experienced GC user should already know. The book contains an easy to understand explanation about how a mass spectrometer works. Some additional details or diagrams could have clarified the description of how the DC/RF field separates the mass fragments in the quadrupole analyzer; but otherwise the text is crystal clear. Information about tuning and maintaining the mass spectrometer is well presented and the authors provide some helpful suggestions including a way to tell during the tuning process that the source needs cleaning. More information about spectral interpretation would have been appreciated but is probably outside the scope of the book. This book belongs on the library shelves of colleges with undergraduate chemistry programs and would be helpful in industrial and environmental laboratories as an introduction for chemists and technicians new to the field.

The book may be considered difficult for a starting user. I have been working with GC/MS for 10 years and the comments and all explanations inside are really and absolutely useful. Unfortunately I had not such a book when I was starting to deal with this technique.

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