



# Mass Spectrometry: A Textbook

By Jürgen H. Gross

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**Mass Spectrometry** is an ideal textbook for students and professionals as well as newcomers to the field. Starting from the very first principles of gas-phase ion chemistry and isotopic properties, the textbook takes the reader through the design of mass analyzers and ionization methods all the way to mass spectral interpretation and coupling techniques. Step-by-step, the reader learns how mass spectrometry works and what it can do. The book comprises a balanced mixture of practice-oriented information and theoretical background. It features a clear layout and a wealth of high-quality figures. Exercises and solutions are located on the Springer Global Web.

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## Mass Spectrometry: A Textbook By Jürgen H. Gross Bibliography

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## Editorial Review

Review

From the reviews:

Choice

Review by J. Allison, College of New Jersey

"With dozens of works available in the ever-expanding field of mass spectrometry, the ideal work still seems, as Gross (Univ. of Heidelberg) states, to be missing. Gross does an excellent job of constructing a book that is surprisingly comprehensive, scientifically accurate, and is packed with figures, photos, and examples. All of the standard topics are covered, including common ionization methods, instrumentation, ion chemistry, and "hot" methods. The writing is very informal, which may make it more accessible to readers new to the field. At times, figures are not adequately explained, and sections that need to be included for completeness are short; however, there are few options when trying to present so much in a single volume. Gross does this well. The book is well written and packed with useful citations and information. Photos of equipment are very instructive and useful. Teachers of mass spectrometry will find this to be a pleasant surprise, and a top contender as the resource for a course in this field. Summing Up: Highly recommended. General readers; upper-division undergraduates through professionals."

"It represents a long-awaited update in the literature on general mass spectrometry ... is very well referenced and ... clearly set out ... provides a most valuable reference for the professional mass spectrometrists and for users at all levels. ... ideal text for new graduates, setting out on a career in mass spectrometry, and provides a well-rounded and comprehensive overview of the field. ... will undoubtedly take its place among classical mass spectrometry texts." (Peter Cullis, *Chemistry in Australia*, June, 2005)

"No single author has attempted to compile such a comprehensive treatise. ... Each chapter offers a detailed discussion with many illustrations facilitating understanding. ... The book is admirably free from errors ... highly informative and up-to-date covering all aspects of organic mass spectrometry. It can be used both as a reference book and as a guide for those persons who want more than a superficial knowledge of this important field." (Herbert Budzikiewicz, *Analytical and Bioanalytical Chemistry*, Vol. 381, 2005)

"Starting from first principles this textbook takes the reader through the design of mass analysers and ionisation methods all the way to mass spectral interpretation and coupling techniques. ... This is an ideal textbook for students and professionals as well as newcomers to the field of mass spectrometry. It provides a balanced mixture of practical and theoretical background, featuring a clear layout and a wealth of high-quality figures, and an extensive reference list at the end of each chapter." (Stephen Mee, *Materials World Inc.*, Vol. 13(5), 2005)

"It is a very thorough book which looks at all aspects of the subject ... It is generously illustrated with figures, schemes, spectra, tables and graphs. Every term is defined as it arises ... equations are derived and experimental data plotted. It is fully referenced to original literature, and has a good index." (E. D. Morgan, *Chromatographia*, Vol. 61(5-6), 2005)

"An up-to-date text-book on mass spectrometry that not only contains a thorough treatment of the various

aspects and methods of this technique, but also provides a comprehensive coverage of the relevant literature. It is an excellent work ... . From the conception of the book and its detailed contents it is clear that the author has a deep understanding of this field. ... can be recommended unreservedly as a textbook and reference source for chemists, especially organic chemists." (Manfred Hesse, *Angewandte Chemie International Edition*, Vol. 43(35), 2004)

"It is amazing, how much detailed information he is able to pack into compact chapters without oversimplifying or loosing precision or clarity. ... excellently illustrated with a large number of straight-to-the-point graphics ... . definitively is worth reading for a broad readership ... . I will certainly recommend it to my own coworkers. ... one of the best textbook on mass spectrometry I have seen so far. It may serve excellently as a basis for teaching lecture courses on mass spectrometry." (Christoph A. Schalley, *International Journal of Mass Spectrometry*, Vol. 235, 2004)

"The book entitled 'Mass Spectrometry – A Textbook' provides an overview of the principles and technology that define mass spectrometry (MS). ... The book is comprised of twelve, well written chapters with easy-to-follow diagrams, figures and appendices. ... Cross-disciplinary students or researchers at the biology-chemistry interface would find this book rewarding ... ." (Aine Behan, *Proteomics*, Vol. 5 (17), 2005)

#### From the Back Cover

Mass spectrometry today is an indispensable tool in chemistry and life sciences. This book is tailored to guide students and professionals as well as novices to mass spectrometry from other fields. *Mass Spectrometry - A Textbook* will guide them from their first steps to the successful application of mass spectrometry in their daily work in research. Starting from the very principles of gas phase ion chemistry and isotopic properties, it leads through the design of mass analyzers and the ionization methods in use to mass spectral interpretation and coupling techniques. Step by step the readers will understand how mass spectrometry works and what it can do as a powerful tool in their hands. The book comprises a balanced mixture of practice-oriented information and theoretical background. The clear layout, a wealth of high quality figures and a database with exercises and solutions freely accessible via the publisher's web site, support the reader's understanding.

#### About the Author

Jürgen H. Gross is head of the mass spectrometry facility at the Institute of Organic Chemistry of the University of Heidelberg, Germany

### Users Review

#### From reader reviews:

#### Daniel Rogers:

Playing with family in a very park, coming to see the marine world or hanging out with good friends is thing that usually you have done when you have spare time, and then why you don't try thing that really opposite from that. One particular activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you are ride on and with addition details. Even you love *Mass Spectrometry: A Textbook*, you are able to enjoy both. It is very good combination right, you still want to miss it? What kind of hangout type is it? Oh can happen its mind hangout guys. What? Still don't have it, oh come on its known as reading friends.

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