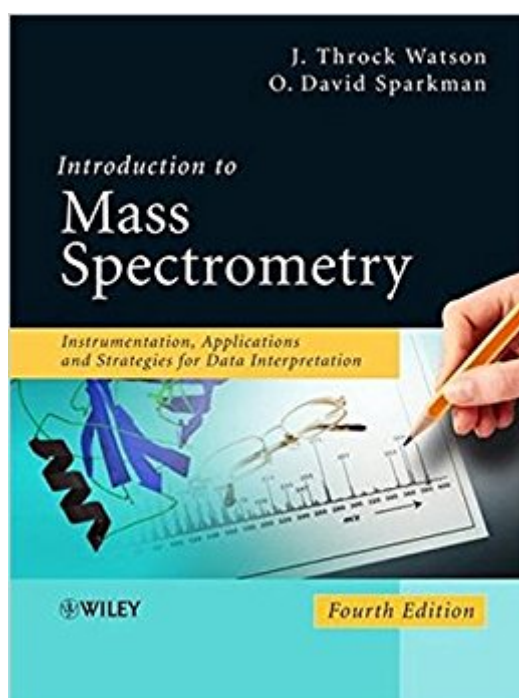


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# Introduction To Mass Spectrometry: Instrumentation, Applications, And Strategies For Data Interpretation



## Synopsis

Completely revised and updated, this text provides an easy-to-read guide to the concept of mass spectrometry and demonstrates its potential and limitations. Written by internationally recognised experts and utilising "real life" examples of analyses and applications, the book presents real cases of qualitative and quantitative applications of mass spectrometry. Unlike other mass spectrometry texts, this comprehensive reference provides systematic descriptions of the various types of mass analysers and ionisation, along with corresponding strategies for interpretation of data. The book concludes with a comprehensive 3000 references. This multi-disciplined text covers the fundamentals as well as recent advance in this topic, providing need-to-know information for researchers in many disciplines including pharmaceutical, environmental and biomedical analysis who are utilizing mass spectrometry

## Book Information

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## Customer Reviews

"The writing here is approachable, honest and understandable. One gets the sense that a very knowledgeable friend is sharing the story of mass spectrometry with you.... This hefty single volume is a mature presentation of all major topics in organic and biological mass spectrometry." (Journal of Chemical Education, July 2009) ["Introduction to Mass Spectrometry, Instrumentation, Applications, and Strategies for Data Interpretation definitely adds to the selection of general mass spectrometry textbooks in a valuable manner. It is capable of delivering introductory-level knowledge for the undergraduate as well as of providing detailed information for those getting into mass spectrometry."](#) (Analytical Science and Bioanalytical Chemistry, July 2008) "An

easy-to-read guide to the concept of mass spectrometry, and demonstrates its potential and limitations....

• This comprehensive reference provides systematic descriptions of the various types of mass analyzers and ionization, along with corresponding strategies for interpretation of data." (MP Materials Testing, February 2009) "An easy-to-read guide to the concepts of mass spectrometry, its potential, and its limitations." (Materials and Corrosion, November 2007) "This book should certainly be on the bookshelf of every mass spectrometrists." (International Journal of Environmental and Analytical Chemistry, 2008) "The book is a very useful reference, and will be a useful work for teaching mass spectrometry." (CHOICE, April 2008) "Provides an easy to read guide" • "this comprehensive reference provides systematic descriptions" • "This latest edition provides students with a complete overview of principles." • (Materials Evaluation, December 2007) "This completely updated text provides an easy-to-read guide to the concepts of mass spectrometry, its potential, and its limitations." (Materials and Corrosion, November 2007)

This is a great book for any level mass spectroscopist, really covers a vast amount of material. I would recommend this to anyone who would like to know more about mass spectrometers or applications.

This is the best Like New ever!!

I totally agreed with the other reviewer, this is one of most detailed books on mass spectrometry. The presentation is very clear. It also discusses recent advances. I strongly recommend this book to anybody who wants to have a good understanding of MS. However, this book is full of typos. The following is a partial list of all the typos. On P273 Hg is identified as a transition element. It is well known that Hg is not a transition metal. Metals that have unpaired d electrons in their elemental state or common oxidation states are considered as transition metals. Hg is not a transition metal. P338, one of the arrows in Scheme 6-14 is not correct in the formation of  $[H_2C=OH]^+$ . On P371, the last paragraph, the statement " the ion with m/z 112 produced by the 1,2-elimination of water, and then ethene..." should be " the ion with m/z 112 produced by the 1,2-elimination of water and then propene". P424, the ion  $[H_2C=SiOMe_2]^+$  has an m/z of 88 rather than 89 as shown in the book. Despite the fact it has so many typos, it is still one of the best books on MS.

This is a fantastic mass spectrometry book! I have the previous edition and this edition is far superior. It does cover a lot of the politics/history of mass spec, but I found that interesting. It is

well-organized, easy to read, and thorough. If you are only going to purchase one MS book, I would recommend this one.

If you are interested in doing a detailed study of Mass Spec together with how the instrument works, this book is good. It has much historical background that may be boring to some people, but I don't have a problem with that. The book is for advanced and detailed study on mass spec and how the instrument works. It answers many questions on Why? and How? of Mass Spec

In despite of typos and others minor mistakes, this book is the best in the Mass Spectrometry field for advanced students.

This book is clear and fairly complete, but it tends to introduce a lot of historical information about obsolete techniques, before telling you that it is historical and obsolete. Full citations are listed in the back of each chapter which is helpful.

An indispensable reference for any MS user; however this book should not be used an introductory text. Although up-to-date and thorough, the book has questionable organization and is a bit difficult to simply read from cover to cover.

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