



# Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy)

By Robert Thomas

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## Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy) By Robert Thomas

Whatever your ICP-MS experience, you probably know that there are many textbooks compiled and edited by academics that approach ICP-MS from a purely theoretical and fundamental perspective, but there aren't any books that provide a practical perspective of the technique that are written specifically for the novice user. You'll be glad to know that the landscape is changing. With the publication of **Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition**, the user community has a new reference book that covers everything a beginner needs to know. Aimed specifically at analytical chemists who are not familiar with the technique and novice users who have just started using it, this updated, revised, and rewritten manuscript includes:

- Updated sections on ICP-MS basic principles to reflect advancements in the technology over the past four years
- New chapter on Trace Element Speciation using HPLC-ICP-MS
- New comprehensive easy-to-understand Glossary/dictionary of ICP-MS terms
- Extensive revisions to the chapter on "How to Select an ICP-MS"
- Applications section incorporates solutions to more and diverse application problems
- Rewritten chapter on collision/reaction cells and interfaces takes a detailed look at the different commercial approaches
- Updated chapter on alternative sample introduction techniques, including all the new commercially-available systems
- Revised chapter on comparing ICP-MS with other Atomic Spectroscopy techniques to reflect the most recent developments

Written by an insider with more than 20 years experience in product development, customer support, and technical marketing for an ICP-MS instrument vendor, the book highlights this powerful ultra trace-element technique as a practical solution to real-world problems. The in-depth presentation of analytical advantages and practical capabilities of the technique

from someone who has been involved in all aspects of ICP-MS instrumental analysis, gives the author a unique insight into the technique and therefore makes the book an important part of any laboratory toolkit.

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*By Robert Thomas*

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### Editorial Review

#### Review

##### *Praise for the First Edition*

"Any new user of ICP-MS or anyone contemplating entering the field will find the Practical Guide to ICP-MS an essential first step. This book demystifies ICP-MS and shows readers just how accessible a technique it really is. ... [It] is written clearly and is well organized. ... As a practitioner of ICP-MS for more than 20 years, I highly recommend this book as a primer to students, new users, laboratory managers, and users of ICP-MS data. The price of the book is well worth investing for Chapter 20 alone, which deals with the selection criteria for instrument purchase. More-experienced users and teachers will find that this book is a useful source of information on the current state of ICP-MS and its place in analytical atomic spectrometry."  
?Spectroscopy Magazine

"This book will be particularly useful to students and analytical chemists who are about to use an ICP-MS, and also those in management who might have a basic understanding of atomic spectroscopic techniques but not necessarily ICP-MS. ... [The author] hoped the book might find a place on the analyst's desk or by the instrument and would be well used. Indeed, this is where my copy will probably be found."

?The Analyst

"... a valuable introduction to the subject for anyone interested in ICP-MS. ... [a] highly informative book  
...."

?Today's Chemist at Work

"...[this book] highlights everything from basic component descriptions and features to guidelines describing where and when...ICP-MS is most appropriately employed....I look forward to seeing this book used in many training programs, classrooms, and analysis laboratories."

?Ramon M. Barnes, Director, University Research Institute of Analytical Chemistry and Professor Emeritus of Chemistry, University of Massachusetts, Amherst

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**Ruth Ford:**

This Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy) book is not really ordinary book, you have after that it the world is in your hands. The benefit you get by reading this book is actually information inside this reserve incredible fresh, you will get info which is getting deeper you actually read a lot of information you will get. This particular Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy) without we recognize teach the one who reading it become critical in thinking and analyzing. Don't possibly be worry Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy) can bring if you are and not make your bag space or bookshelves' become full because you can have it in your lovely laptop even cell phone. This Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy) having excellent arrangement in word and also layout, so you will not sense uninterested in reading.

**Corey Johnson:**

The e-book untitled Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy) is the book that recommended to you to study. You can see the quality of the guide content that will be shown to you. The language that creator use to explained their ideas are easily to understand. The writer was did a lot of exploration when write the book, to ensure the information that they share to your account is absolutely accurate. You also can get the e-book of Practical Guide to ICP-MS: A Tutorial for Beginners, Second Edition (Practical Spectroscopy) from the publisher to make you a lot more enjoy free time.

**Marylou Beauregard:**

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