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| Titolo | Practical guide to ICP-MS : a tutorial for beginners // Robert Thomas |
| Pubbl/distr/stampa | Boca Raton : , : Taylor & Francis, , 2013 |
| ISBN | 0-429-09753-0 1-4665-5544-0 |
| Edizione | [3rd ed.] |
| Descrizione fisica | 1 online resource (441 p.) |
| Collana | Practical spectroscopy : a series ; ; 38 |
| Disciplina | 543/.65 |
| Soggetti | Inductively coupled plasma mass spectrometry Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Front Cover; Contents; Foreword; Preface; Acknowledgment; Author; Chapter 1 - An Overview of ICP-MS; Chapter 2 - Principles of Ion Formation; Chapter 3 - Sample Introduction; Chapter 4 - Plasma Source; Chapter 5 - Interface Region; Chapter 6 - Ion-Focusing System; Chapter 7 - Mass Analyzers: Quadrupole Technology; Chapter 8 - Mass Analyzers: Double-Focusing Magnetic Sector Technology; Chapter 9 - Mass Analyzers: Time-of-Flight Technology; Chapter 10 - Mass Analyzers: Collision/Reaction Cell and Interface Technology; Chapter 11 - Ion Detectors; Chapter 12 - Peak Measurement Protocol Chapter 13 - Methods of Quantitation Chapter 14 - Review of Interferences; Chapter 15 - Sample Preparation; Chapter 16 - Routine Maintenance; Chapter 17 - Alternative Sample Introduction Techniques; Chapter 18 - Coupling ICP-MS with Chromatographic Techniques for Trace Element Speciation; Chapter 19 - Common ICP-MS Applications; Chapter 20 - Emerging ICP-MS Application Areas; Chapter 21 - Comparing ICP-MS with Other Atomic Spectroscopic Techniques; Chapter 22 - How to Select an ICP Mass Spectrometer: Some Important Analytical Considerations; Chapter 23 - Final Thoughts Appendix: Useful Contact Information Glossary of ICP-MS Terms; References; Back Cover |
| Sommario/riassunto | Presenting an in-depth discussion of the fundamental principles, analytical advantages, and practical capabilities of ICP-MS, this volume |

offers key concepts in a reader-friendly format suitable for those with limited knowledge of the technique. 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 new edition has been updated and revised to cover new developments and updates to existing applications and reflects the significant new technology introduced by vendors since the second edition published--
