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Descrizione fisica	1 online resource (XXV, 968 p. 664 illus., 201 illus. in color.)
Disciplina	543.0873
Soggetti	Mass spectrometry
	Proteomics
	Pharmacology
	Environmental monitoring
	Organic chemistry
	Forensic science
	Mass Spectrometry
	Pharmacology/Toxicology
	Monitoring/Environmental Analysis
	Organic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction Principles of Ionization and Ion Dissociation Isotopic Composition and Accurate Mass Instrumentation Practical Aspects of Electron Ionization Fragmentation of Organic Ions and Interpretation of EI Mass Spectra Chemical Ionization Field Ionization and Field Desorption Tandem Mass Spectrometry Fast Atom Bombardment Matrix-Assisted Laser Desorption/Ionization Electrospray Ionization Ambient Mass Spectrometry Hyphenated Methods Inorganic Mass Spectrometry.
Sommario/riassunto	This third edition of the highly successful textbook, acclaimed for its comprehensiveness, accuracy, and excellent illustrations and photographs now comes with updated coverage plus numerous didactical improvements: The number of figures has notably increased,

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with about one third of them now presented in color. More photographs and schematics make it easier to understand and provide valuable insights into the practical aspects of instrumentation and procedures. Flow charts describe procedures and approaches to mass spectral interpretation and aid in decision making. Bulleted enumerations offer a quick overview wherever several features, arguments, assumptions, or properties of a subject call for clear presentation. Examples and notes now come with a short subheading that immediately conveys what this section is about. More examples, especially of methods and applications are given and some how-tostyle paragraphs provide practical guidance. Each chapter ends with a concise summary that is subdivided into compact sections highlighting the basics of the subject, its figures of merit, typical applications, and its role in current mass spectromety. In the case of instrumentation (chapter 4), there are even summaries covering mass analyzers type by type. Digital object identifiers (DOIs) are now included to facilitate retrieval of references. All of this is presented in a new, attractive layout. The book's website provides exercises and supplementary material (www.ms-textbook.com).