DESCRIPTION

The latest edition of a highly successful textbook, *Mass Spectrometry, Third Edition* provides students with a complete overview of the principles, theories and key applications of modern mass spectrometry. All instrumental aspects of mass spectrometry are clearly and concisely described: sources, analysers and detectors. Tandem mass spectrometry is introduced early on and then developed in more detail in a later chapter. Emphasis is placed throughout the text on optimal utilisation conditions. Various fragmentation patterns are described together with analytical information that derives from the mass spectra.

This new edition has been thoroughly revised and updated and has been redesigned to give the book a more contemporary look. As with previous editions it contains numerous examples, references and a series of exercises of increasing difficulty to encourage student understanding. Updates include: Increased coverage of MALDI and ESI, more detailed description of time of flight spectrometers, new material on isotope ratio mass spectrometry, and an expanded range of applications.

*Mass Spectrometry, Third Edition* is an invaluable resource for all undergraduate and postgraduate students using this technique in departments of chemistry, biochemistry, medicine, pharmacology, agriculture, material science and food science. It is also of interest for researchers looking for an overview of the latest techniques and developments.

ABOUT THE AUTHOR

Edmond de Hoffmann
NEW TO EDITION

• Increased coverage of MALDI and ESI

• Time of flight spectrometers are described in more detail

• New material on isotope ratio mass spectrometry

• Expanded range of applications and newer methods such as metabolome are included.

• New material about instruments such as linear traps, Orbitrap, TOF/TOF, hybrid instruments, and about new atmospheric ionisation techniques such as APPI, DESI, DART

• Complete redesign to give the book a more modern look

FEATURES

• Provides a complete overview of the principles, theories and applications of modern mass spectrometry

• Contains numerous examples and exercises to encourage student understanding

• Describes all instrumental aspects of mass spectrometry clearly and concisely

• Emphasizes practical application examples throughout the text
• Contains numerous tables of useful data, references and a series of exercises of increasing difficulty to encourage student understanding

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