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This manual deals specifically with laboratory approaches to diagnosing inborn errors of metabolism. The key feature is

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that each chapter is sufficiently detailed so that any individual can adopt the described method into their own respective laboratory.

Due to its enormous sensitivity and ease of use, mass spectrometry has grown into the analytical tool of choice in most industries and areas of research. This unique reference provides an extensive library of methods used in mass spectrometry, covering applications of mass spectrometry in fields as diverse as drug discovery, environmental science, forensic science, clinical analysis, polymers, oil composition, doping, cellular research, semiconductor, ceramics, metals and alloys, and homeland security. The book provides the reader with a protocol for the technique described

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(including sampling methods) and explains why to use a particular method and not others. Essential for MS specialists working in industrial, environmental, and clinical fields.

Plants and plant-derived compounds and drugs are becoming more and more popular with increasing numbers of scientists researching plant analysis. The quality control of herbal drugs is also becoming essential to avoid severe health problems, and in the future many more new drugs will be developed from plant sources. This three-volume Handbook, featuring 47 detailed review articles, is unique as it deals with chemical and biological methodologies for plant analysis. It presents the most important and

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most accurate methods which are available for plant analysis. This comprehensive work is divided into six sections as follows: Sample preparation and identification – discussing plant selection and collection, followed by extraction and sample preparation methodologies. Extraction and sample preparation methodologies
Instrumentation for chemical analysis -
several instrumentations for chemical plant analysis are presented with an emphasis on hyphenated techniques, e.g. the coupling between HPLC and mass spectrometry, and HPLC with NMR. Strategies for selective classes of compounds – coverage of the most interesting classes of compounds such as polysaccharides, saponins, cardiotonic glycosides, alkaloids, terpenoids, lipids, volatile compounds

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and polyphenols (flavonoids, xanthenes, coumarins, naphthoquinones, anthraquinones, proanthocyanidins, etc.). Biological Analysis - includes phenotyping, DNA barcoding techniques, transcriptome analysis, microarray, metabolomics and proteomics. Drugs from Plants – covers the screening of plant extracts and strategies for the quick discovery of novel bioactive natural products. Safety assessment of herbal drugs is highly dependent on outstanding chromatographic and spectroscopic methods which are also featured here. This Handbook introduces to scientists involved in plant studies the current knowledge of methodologies in various fields of chemically- and biochemically-related topics in plant research. The content from this Handbook will publish online within

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theEncyclopedia of Analytical Chemistry via Wiley Online Library: <http://www.wileyonlinelibrary.com/ref/eac> <http://www.wileyonlinelibrary.com/ref/eac/a> Benefit from the introductory offer, valid until 30 November 2014! Introductory price: £425.00 / \$695.00 / € 550.00 List price thereafter: £495.00 / \$795.00 / € 640.00

The second edition of Gas Chromatography and Mass Spectrometry: A Practical Guide follows the highly successful first edition by F.G. Kitson, B.S. Larsen, and C.N. McEwen (1996), which was designed as an indispensable resource for GC/MS practitioners regardless of whether they are a novice or well experienced. The Fundamentals section has been extensively reworked from the original edition to

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give more depth of an understanding of the techniques and science involved with GC/MS. Even with this expansion, the original brevity and simple didactic style has been retained. Information on chromatographic peak deconvolution has been added along with a more in-depth understanding of the use of mass spectral databases in the identification of unknowns. Since the last edition, a number of advances in GC inlet systems and sample introduction techniques have occurred, and they are included in the new edition. Other updates include a discussion on fast GC and options for combining GC detectors with mass spectrometry. The section regarding GC Conditions, Derivatization, and Mass Spectral Interpretation of Specific Compound Types has the same number of compound types as the original edition,

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but the information in each section has been expanded to not only explain some of the spectra but to also explain why certain fragmentations take place. The number of Appendices has been increased from 12 to 17. The Appendix on Atomic Masses and Isotope Abundances has been expanded to provide tools to aid in determination of elemental composition from isotope peak intensity ratios. An appendix with examples on "Steps to follow in the determination of elemental compositions based on isotope peak intensities" has been added. Appendices on whether to use GC/MS or LC/MS, third-party software for use in data analysis, list of information required in reporting GC/MS data, X+1 and X+2 peak relative intensities based on the number of atoms of carbon in an ion, and list of available EI

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mass spectral databases have been added. Others such as the ones on derivatization, isotope peak patterns for ions with Cl and/or Br, terms used in GC and in mass spectrometry, and tips on setting up, maintaining and troubleshooting a GC/MS system have all been expanded and updated. Covers the practical instruction necessary for successful operation of GC/MS equipment Reviews the latest advances in instrumentation, ionization methods, and quantitation Includes troubleshooting techniques and a variety of additional information useful for the GC/MS practitioner A true benchtop reference A guide to a basic understanding of the components of a Gas Chromatograph-Mass Spectrometer (GC-MS) Quick References to data interpretation Ready source for information on new

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analyses

The only comprehensive reference on this popular and rapidly developing technique provides a detailed overview, ranging from fundamentals to applications, including a section on the evaluation of GC-MS analyses. As such, it covers all aspects, including the theory and principles, as well as a broad range of real-life examples taken from laboratories in environmental, food, pharmaceutical and clinical analysis. It also features a glossary of approximately 300 terms and a substance index that facilitates finding a specific application. For this new edition the work has been now extended to two volumes, reflecting the latest developments in the technique and related

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instrumentation, while also incorporating several new examples of applications in many fields. The first two editions were very well received, making this handbook a must-have in all analytical laboratories using GC-MS.

Leading the way for analytical chemists developing new techniques. Introductory Price Available! Order your print copy before 30th April 2016 and save! £650 / \$1,075 / € 799 List price thereafter: £735 / \$1,210 / € 899 This new comprehensive 5 volume set on separation science provides a much needed research-level text for both academic users and researchers who are working with and developing the most current methods, as well as serving as a valuable resource for graduate and post-graduate students.

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Comprising of five topical volumes it provides a comprehensive overview of the subject, highlighting aspects that will drive research in this field in the years to come. Volume 1: Liquid Chromatography Volume 2: Special Liquid Chromatography Modes and Capillary Electromigration Techniques Volume 3: Gas, Supercritical and Chiral Chromatography Volume 4: Chromatographic and Related Techniques Volume 5: Sample Treatment, Method Validation, and Applications Key Features: - Comprises over 2,100 pages in 5 volumes – available in print and online - Edited by an international editorial team which has both prominent and experienced senior researchers as well as young and dynamic rising stars - Individual chapters are labeled as either introductory or

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advanced, in order to guide readers in finding the content at the appropriate level - Fully indexed with cross referencing within and between all 5 volumes

Gas chromatography-mass spectrometry (GC-MS) with supersonic molecular beams (SMB) (also named GC-MS with Cold EI) is based on GC and MS interface with a SMB and on the electron ionization (EI) of vibrationally cold analytes in the SMB (hence the name Cold EI) in a contact-free fly-through ion source. Cold EI improves all the central GC-MS performance aspects and brings a broad range of important benefits thereby leading the way to the future of GC-MS. Cold EI provides enhanced molecular ions combined with effective library-based sample identification. Sample

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identification is further improved by the use of powerful TAMI software that is based on isotope abundance analysis and improved quadrupole mass accuracy for the provision of the sample elemental formula from its molecular ion group of isotopologues.

Whether considering toxicant exposure in zebrafish, or the application of cellular diagnostics to marine toxicology, or the ecotoxicology of coral reef ecosystems, or the amount of metalloids in water, this reference offers the protocols for specimen collection that researchers need. Following up on his popular *Techniques in Aquatic Toxicology* with

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The global biodiversity and climate emergencies demand transformative changes to human activities. For example, food production relies on synthetic, industrial and non-sustainable products for managing pests, weeds and diseases of crops. Sustainable farming requires approaches to managing these agricultural constraints that are more environmentally benign and work with rather than against nature. Increasing pressure on synthetic products has reinvigorated efforts to identify alternative pest management options, including plant-based solutions that are environmentally benign and can be tailored to different farmers' needs, from commercial to small holder and subsistence farming. Botanical insecticides and pesticidal

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plants can offer a novel, effective and more sustainable alternative to synthetic products for controlling pests, diseases and weeds. This Special Issue reviews and reports the latest developments in plant-based pesticides from identification of bioactive plant chemicals, mechanisms of activity and validation of their use in horticulture and disease vector control. Other work reports applications in rice weeds, combination biopesticides and how chemistry varies spatially and influences the effectiveness of botanicals in different locations. Three reviews assess wider questions around the potential of plant-based pest management to address the global challenges of new, invasive and established crop pests and as-yet underexploited pesticidal plants.

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