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Isotopes: Principles and Applications, 3rd Edition | Wiley. Covering radiogenic, radioactive, and stable isotopes, this comprehensive text contains five sections that present fundamentals of atomic physics; dating methods for terrestrial and extraterrestrial rocks by means of radiogenic isotopes; geochemistry of radiogenic isotopes; dating by means of U, Th-series and cosmogenic radionuclides; and the fractionation of the stable isotopes of H, C, N, O, and S, as well as Li, B, Si, and Cl.

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ISOTOPES; PRINCIPLES AND APPLICATIONS (2005) by Gunter Faure and Teresa M. Mensing
Department of Geological Sciences The Ohio State University Columbus, Ohio 43210 Third Edition
Principles of Isotope Geology Wiley and Sons, Inc. Hoboken, New Jersey. Full file at
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ISOTOPES; PRINCIPLES AND APPLICATIONS (2005) by Gunter Faure and Teresa M. Mensing
Department of Geological Sciences The Ohio State University Columbus, Ohio 43210 Third Edition
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A new edition of a very well regarded textbook on isotope geochemistry, this text covers both radiogenic & stable isotopes, & offers up-to-date coverage of the U-Pb methods, Helium & Tritium methods, the petrogenesis of metamorphic rocks, carbon-14 dating methods & much else.

This two-volume reference serves as a handbook containing a wealth of information for all isotope chemists working in a wide range of disciplines including anthropology to ecology; drug detection methodology to toxicology; nutrition to food science; and the atmospheric sciences to geochemistry. Complementing the first volume, Volume II includes matters that are not strictly confined to the analytical techniques themselves, but relate to analysis of stable isotopes, such as the views on the development of mass spectrometers, isotopic scales, standards and references, and directives for setting up a laboratory. ALSO AVAILABLE: Volume I: Dec. 2004, 0444511148/9780444511140, \$176.00

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Volume I and II (set): Oct. 2007, 0444511164/9780444511164, \$205.00 * Presents an encyclopedic overview of stable isotope analytical techniques in an objective way * Includes descriptions of methods and diagrams of analytical devices * Addresses how older techniques formed the basis for present-day techniques, which can be useful in constructing modern analytical systems * Complements Volume I of the set

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.

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The first edition of Inductively Coupled Plasma Spectrometry and its Applications was written as a handbook for users who wanted a better understanding of the theory augmented by a practical insight of how best to approach a range of applications, and to provide a useful starting point for users trying an approach or technique new to them. These objectives have been retained in the second edition but a slight shift in emphasis gives the volume an overall perspective that is more forward looking. Structured into 11 chapters, the current edition is a thorough revision of the original, covering the principles of inductively coupled plasmas, instrumentation, methodology and applications within environmental analysis, earth science, food science and clinical medicine. Each chapter, written by internationally recognised leaders in their specific subject areas, provides enough detail to be useful to both the new and experienced users. Full account is taken of recent developments, such as high resolution instruments, novel detection systems and electrospray techniques. Written for all analytical scientists but particularly those involved in atomic spectroscopy and in environmental, geochemical, clinical or food analysis, this timely and informative book will be an essential reference in their use of inductively coupled plasma to achieve their own scientific goals.

The use of Compound-specific Stable Isotope Analysis (CSIA) is increasing in many areas of science and technology for source allocation, authentication, and characterization of transformation reactions. Until now, there have been no textbooks available for students with an analytical chemical background or basic introductory books emphasising the instrumentation and theory. This book is the first to focus solely on stable isotope analysis of individual compounds in sometimes complex mixtures. It acts as both a lecture companion for students and a consultant for advanced scientists in fields including forensic and environmental science. The book starts with a brief history of the field before going on to

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explain stable isotopes from scratch. The different ways to express isotope abundances are introduced together with isotope effects and isotopic fractionation. A detailed account of the required technical equipment and general procedures for CSIA is provided. This includes sections on derivatization and the use of microextraction techniques in GC-IRMS. The very important topic of referencing and calibration in CSIA is clearly described. This differs from approaches used in quantitative analysis and is often difficult for the newcomer to comprehend. Examples of successful applications of CSIA in food authenticity, forensics, archaeology, doping control, environmental science, and extraterrestrial materials are included. Applications in isotope data treatment and presentation are also discussed and emphasis is placed on the general conclusions that can be drawn from the uses of CSIA. Further instrumental developments in the field are highlighted and selected experiments are introduced that may act as a basis for a short practical course at graduate level.

It is interesting to consider that biopolymers are by no means new to this world. It is only because of our fascination with petrochemical products that these wonderful materials have been neglected for so long. Today we face a different challenge. Environmental pressure is pushing away from synthetic or petrochemically derived products, while economic factors are pulling back from often more expensive "green" options. This book presents two aspects of biopolymers; potential products and some applications of biopolymers covering the current relevance of biopolymers.

This book presents a summary of the geology of the Transantarctic Mountains for Earth scientists who may want to work there or who need an overview of the geologic history of this region. In addition, the properties of the East Antarctic ice sheet and of the meteorites that accumulate on its surface are treated

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in separate chapters. The presentation ends with the Cenozoic glaciation of the Transantarctic Mountains including the limnology and geochemical evolution of the saline lakes in the ice-free valleys. • The subject matter in this book is presented in chronological order starting about 750 million years ago and continuing to the present time. • The chapters can be read selectively because the introduction to each chapter identifies the context that gives relevance to the subject matter to be discussed. • The text is richly illustrated with 330 original line drawings as well as with 182 color maps and photographs. • The book contains indexes of both subject matter and of authors' names that allow it to be used as an encyclopedia of the Transantarctic Mountains and of the East Antarctic ice sheet. • Most of the chapters are supplemented by Appendices containing data tables, additional explanations of certain phenomena (e.g., the formation and seasonal destruction of stratospheric ozone), and illustrative calculations (e.g., ^{38}Cl dates of meteorites). • The authors have spent a combined total of fourteen field seasons between 1964 and 1995 doing geological research in the Transantarctic Mountains with logistical support by the US Antarctic Program. • Although Antarctica is remote and inaccessible, tens of thousands of scientists of many nationalities and their assistants have worked there and even larger numbers of investigators will work there in the future.

Edited by two very well-known and respected scientists in the field, this excellent practical guide is the first to cover the fundamentals and a wide range of applications, as well as showing readers how to efficiently use this increasingly important technique. From the contents: * The Isotopic Composition of the Elements * Single-Collector ICP-MS * Multi-Collector ICP-MS * Advances in Laser Ablation - Multi-Collector ICP-MS * Correction for Instrumental Mass Discrimination in Isotope Ratio Determination with Multi-Collector ICP-MS * Reference Materials in Isotopic Analysis * Quality

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Control in Isotope Ratio Applications * Determination of Trace Elements and Elemental Species Using Isotope Dilution ICP-MS * Geochronological Dating * Application of Multi-Collector ICP-MS to Isotopic Analysis in Cosmochemistry * Establishing the Basis for Using Stable Isotope Ratios of Metals as Paleoredox Proxies * Isotopes as Tracers of Elements Across the Geosphere-Biosphere Interface * Archaeometric Applications * Forensics Applications * Nuclear Applications * The Use of Stable Isotope Techniques for Studying Mineral and Trace Element Metabolism in Humans * Isotopic Analysis via Multi-Collector ICP-MS in Elemental Speciation A must-have for newcomers as well as established scientists seeking an overview of isotopic analysis via ICP-MS.

The rapidly expanding molecular biological techniques and approaches have significant impact on microbial biotechnology, hence the need for the addition of four new chapters in the third edition of this textbook — “Chapter 3: Application of ‘Omics’ Technologies in Microbial Fermentation”, “Chapter 5: Microbial Genome Mining for Identifying Antimicrobial Targets”, “Chapter 21: Bacterial Biofilm: Molecular Characterization and Impacts on Water Management” and “Chapter 23: Microbial Biomining”. “Chapter 15: Transgenic Plants” has been completely revised while most of the other chapters have been thoroughly updated in this new edition. There already exist a number of excellent general textbooks on microbiology and biotechnology that deal with the basic principles of microbial biotechnology. To complement them, this book focuses on the various applications of microbial-biotechnological principles. A teaching-based format is adopted, whereby working problems, as well as answers to frequently asked questions, supplement the main text. The book also includes real life examples of how the application of microbial-biotechnological principles has achieved breakthroughs in both research and industrial production. Although written for polytechnic students and undergraduates,

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the book contains sufficient information to be used as a reference for postgraduate students and lecturers. It may also serve as a resource book for corporate planners, managers and applied research personnel.

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