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Isotopes: Principles and Applications. 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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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,

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The first edition of Inductively Coupled Plasma Spectrometry and its
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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.

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 petro-chemically 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.

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

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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 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

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short practical course at graduate level.

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 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

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(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 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

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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.

Questions concerning mobility and migration as well as subsistence strategies of past societies have always been of major importance in archaeological research. The West Eurasian steppes in the Eneolithic, the Early Bronze and the Iron Age were largely inhabited by cultural communities believed to show an elevated level of spatial mobility, often linked to their subsistence economy. In this volume, questions concerning the mobility and potential migration as well as the diet and economy of the West Eurasian steppes communities during the 4th, the 3rd and the 1st Millennia BC are approached by applying isotope analysis, specifically $^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$, $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ analyses. Adapting a combination of different isotopic systems to a study area of vast spatial and chronological dimension allowed a wide variety of questions to be answered and establishes the beginning of a database of biogeochemical data for the West Eurasian steppes. Besides the characterisation of mobility and subsistence patterns of the

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archaeological communities under discussion, attempts to identify possible Early Bronze Age migrations from the steppes to the steppe-like plains in parts of Eastern Europe were made, alongside an evaluation of the applicability of isotope analysis to this context.

Widens traditional concepts of forensic science to include humanitarian, social, and cultural aspects Using the preservation of the dignity of the deceased as its foundation, Forensic Science and Humanitarian Action: Interacting with the Dead and the Living is a unique examination of the applications of humanitarian forensic science. Spanning two comprehensive volumes, the text is sufficiently detailed for forensic practitioners, yet accessible enough for non-specialists, and discusses both the latest technologies and real-world interactions. Arranged into five sections, this book addresses the 'management of the dead' across five major areas in humanitarian forensic science. Volume One presents the first three of these areas: History, Theory, Practice, and Legal Foundation; Basic Forensic Information to Trace Missing Persons; and Stable Isotopes Forensics. Topics covered include: Protection of The Missing and the Dead Under International Law Social, Cultural and Religious Factors in Humanitarian Forensic Science Posthumous Dignity and the Importance in Returning Remains of the Deceased The New Disappeared - Migration and

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Forensic Science Stable Isotope Analysis in Forensic Anthropology Volume Two covers two further areas of interest: DNA Analysis and the Forensic Identification Process. It concludes with a comprehensive set of case studies focused on identifying the deceased, and finding missing persons from around the globe, including: Forensic Human Identification from an Australian Perspective Skeletal Remains and Identification Processing at the FBI Migrant Deaths along the Texas/Mexico Border Humanitarian Work in Cyprus by The Committee on Missing Persons (CMP) Volcán De Fuego Eruption - Natural Disaster Response from Guatemala Drawing upon a wide range of contributions from respected academics working in the field, Forensic Science and Humanitarian Action is a unique reference for forensic practitioners, communities of humanitarian workers, human rights defenders, and government and non-governmental officials.

The authoritative contributions gathered in this volume reflect the state of the art in compositional data analysis (CoDa). The respective chapters cover all aspects of CoDa, ranging from mathematical theory, statistical methods and techniques to its broad range of applications in geochemistry, the life sciences and other disciplines. The selected and peer-reviewed papers were originally presented at the 6th International Workshop on Compositional Data Analysis, CoDaWork 2015,

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held in L'Escala (Girona), Spain. Compositional data is defined as vectors of positive components and constant sum, and, more generally, all those vectors representing parts of a whole which only carry relative information. Examples of compositional data can be found in many different fields such as geology, chemistry, economics, medicine, ecology and sociology. As most of the classical statistical techniques are incoherent on compositions, in the 1980s John Aitchison proposed the log-ratio approach to CoDa. This became the foundation of modern CoDa, which is now based on a specific geometric structure for the simplex, an appropriate representation of the sample space of compositional data. The International Workshops on Compositional Data Analysis offer a vital discussion forum for researchers and practitioners concerned with the statistical treatment and modelling of compositional data or other constrained data sets and the interpretation of models and their applications. The goal of the workshops is to summarize and share recent developments, and to identify important lines of future research.

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