



ISOTOPE GEOCHEMISTRY

William M. White

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Isotope Geochemistry William M. White, 2014-11-03 This book provides a comprehensive introduction to radiogenic and stable isotope geochemistry. Beginning with a brief overview of nuclear physics and nuclear origins, it then reviews radioactive decay schemes and their use in geochronology. A following chapter covers the closely related techniques such as fission track and carbon 14 dating. Subsequent chapters cover nucleosynthetic anomalies in meteorites and early solar system chronology and the use of radiogenic isotopes in understanding the evolution of the Earth's mantle, crust, and oceans. Attention then turns to stable isotopes, and after reviewing the basic principles involved, the book explores their use in topics as diverse as mantle evolution, archeology, and paleontology, ore formation, and particularly paleoclimatology. A following chapter explores recent developments including unconventional stable isotopes, mass independent fractionation, and isotopic clumping. The final chapter reviews the isotopic variation in the noble gases, which result from both radioactive decay and chemical fractionations.

Isotope Geochemistry William M. White, 2015-01-27 This book provides a comprehensive introduction to radiogenic and stable isotope geochemistry. Beginning with a brief overview of nuclear physics and nuclear origins, it then reviews radioactive decay schemes and their use in geochronology. A following chapter covers the closely related techniques such as fission track and carbon 14 dating. Subsequent chapters cover nucleosynthetic anomalies in meteorites and early solar system chronology and the use of radiogenic isotopes in understanding the evolution of the Earth's mantle, crust, and oceans. Attention then turns to stable isotopes, and after reviewing the basic principles involved, the book explores their use in topics as diverse as mantle evolution, archeology, and paleontology, ore formation, and particularly paleoclimatology. A following chapter explores recent developments including unconventional stable isotopes, mass independent fractionation, and isotopic clumping. The final chapter reviews the isotopic variation in the noble gases, which result from both radioactive decay and chemical fractionations.

Isotope Geochemistry Heinrich D. Holland, Karl K. Turekian, 2010-09-27 After the discovery that elements were commonly composed of isotopes, there developed a range of studies of the variability of isotopic compositions in Earth materials, which was able to add to our understanding of Earth processes and history. This collection of chapters from the *Treatise on Geochemistry* describes the range of isotopic studies. The chapters are grouped into the following categories: light stable isotopes, radiogenic tracers, noble gases, and radioactive tracers. The first three groups depend on mass spectrometric measurements. The section on radioactive tracers employs both radioactive counting techniques and the newly developed accelerator mass spectrometric techniques. Comprehensive, interdisciplinary, and authoritative content selected by leading subject experts. Robust illustrations, figures, and tables. Affordably priced sampling of content from the full *Treatise on Geochemistry*.

Practical Geochemistry Paul Alexandre, 2021-05-24 This book is a marked departure from typical introductory geochemistry books available. It provides a simple, straightforward, applied, and down-to-earth, no-nonsense introduction to geochemistry. It is for the undergraduate students who are introduced to the subject for the first time but also

for practicing geologists who do not need the heavy duty theory but some clear simple and useful practical tips and pointers This book written from the point of view of a practicing geologist introduces the fundamental and most relevant principles of geochemistry explaining them whenever possible in plain terms Crucially this textbook covers in a single volume practical and useful topics that other introductory geochemistry books ignore such as sampling and sample treatment analytical geochemistry data treatment and geostatistics classification and discrimination diagrams geochemical exploration and environmental geochemistry The main strengths of this book are the breadth of useful and practical topics the straightforward and approachable way in which it is written the numerous real world and specific geological examples and the exercises and review questions using real world data and providing on line answers It is therefore easily understood by the beginner geochemist or any geologist who desires to use geochemistry in their daily work Stable Isotope Geochemistry Jochen Hoefs, 2013-03-09 The first edition of this book was published in 1973 the second totally rewritten followed 7 years later in 1980 Because the field of stable isotopes is still grow ing and exerting an increasing influence on geosciences in general it seems to be necessary after a further 7 years to revise the edition again accordingly Not only has the previous edition been updated but two completely new chapters on the isotopic composi tion of mantle derived material and on the isotopic composition of the ocean during the geologie past have been added The references concentrate on re cent literature In some cases older references have been omitted to save space I do not intend to underrate the value of older publications but only to keep the reference list al ready very voluminous in relation to the totallengt from becoming even larger An early draft has been reviewed by Russell Harmon and Alan Matthews John Valley has se nt me a preprint of an artic1e on metamorphie rocks To all three of them I owe my deepest thanks Handbook of Environmental Isotope Geochemistry Mark Baskaran, 2011-10-13 Applications of radioactive and stable isotopes have revolutionized our understanding of the Earth and near earth surface processes The utility of the isotopes are ever increasing and our sole focus is to bring out the applications of these isotopes as tracers and chronometers to a wider audience so that they can be used as powerful tools to solve environmental problems New developments in this field remain mostly in peer reviewed journal articles and hence our goal is to synthesize these findings for easy reference for students faculty regulators in governmental and non governmental agencies and environmental companies While this volume maintains its rigor in terms of its depth of knowledge and quantitative information it contains the breadth needed for wide variety problems and applications in the environmental sciences This volume presents all of the newer and older applications of isotopes pertaining to the environmental problems in one place that is readily accessible to readers This book not only has the depth and rigor that is needed for academia but it has the breadth and case studies to illustrate the utility of the isotopes in a wide variety of environments atmosphere oceans lakes rivers and streams terrestrial environments and sub surface environments and serves a large audience from students and researchers regulators in federal state and local governments and environmental

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Encyclopedia of Ecology Brian D. Fath,2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes [Geochemistry of Non-Traditional Stable Isotopes](#) Clark M. Johnson,Brian L. Beard,Francis Albarède,2018-12-17 The goal for Volume 55 of Reviews in Mineralogy and Geochemistry was to bring together a summary of the isotope geochemistry of non traditional stable isotope systems as is known through 2003 for those elements that have been studied in some detail and which have a variety of geochemical properties In addition recognizing that many of these elements are of interest to workers who are outside the traditional stable isotope fields we felt it was important to include discussions on the broad isotopic variations that occur in the solar system theoretical approaches to calculating isotopic fractionations and the variety of analytical methods that are in use We hope therefore that this volume proves to be useful to not only the isotope specialist but to others who are interested in the contributions that these non traditional stable isotopes may make toward understanding geochemical and biological cycles The review chapters in this volume were the basis for a two day short course on nontraditional stable isotopes held prior May 15 16 2004 to the spring AGU CGU Meeting in Montreal Canada *Isotopes in Economic Geology, Metallogenesis and*

Exploration David Huston, Jens Gutzmer, 2023-06-19 This open access book documents the use of radiogenic and stable isotopes to study mineral deposits from a global to the deposit scale It includes data sets that have been directly used in mineral exploration Isotopic data have been key to developing models for the origin of many mineral deposit types The book has four sections 1 the use of radiogenic isotopes to date mineral deposits 2 the use of radiogenic isotope mapping to understand metal sources and regional to district scale controls on metallogenesis 3 the use of light stable isotopes to determine fluid and sulfur sources and 4 the use of metallic stable isotopes to understand the sources of ore metals Each section includes chapters on specific isotopic systems and or mineral systems that provide information on theory analytical methods uses in deposit and metallogenic studies examples and traps for young players *Earth Processes* Asish Basu, Stan Hart, 1996-01-09 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 95 Publication of this monograph will coincide to a precision of a few per mil with the centenary of Henri Becquerel s discovery of radiations actives C R Acad Sci Feb 24 1896 In 1896 the Earth was only 40 million years old according to Lord Kelvin Eleven years later Boltwood had pushed the Earth s age past 2000 million years based on the first U Pb chemical dating results In exciting progression came discovery of isotopes by J J Thomson in 1912 invention of the mass spectrometer by Dempster 1918 and Aston 1919 the first measurement of the isotopic composition of Pb Aston 1927 and the final approach using Pb Pb isotopic dating to the correct age of the Earth close 2.9 Ga Gerling 1942 closer 3.0 Ga Holmes 1949 and closest 4.50 Ga Patterson Tilton and Inghram 1953 *The Periodic Table I* D. Michael P. Mingos, 2020-02-05 As 2019 has been declared the International Year of the Periodic Table it is appropriate that Structure and Bonding marks this anniversary with two special volumes In 1869 Dmitri Ivanovitch Mendeleev first proposed his periodic table of the elements He is given the major credit for proposing the conceptual framework used by chemists to systematically inter relate the chemical properties of the elements However the concept of periodicity evolved in distinct stages and was the culmination of work by other chemists over several decades For example Newland s Law of Octaves marked an important step in the evolution of the periodic system since it represented the first clear statement that the properties of the elements repeated after intervals of 8 Mendeleev s predictions demonstrated in an impressive manner how the periodic table could be used to predict the occurrence and properties of new elements Not all of his many predictions proved to be valid but the discovery of scandium gallium and germanium represented sufficient vindication of its utility and they cemented its enduring influence Mendeleev s periodic table was based on the atomic weights of the elements and it was another 50 years before Moseley established that it was the atomic number of the elements that was the fundamental parameter and this led to the prediction of further elements Some have suggested that the periodic table is one of the most fruitful ideas in modern science and that it is comparable to Darwin s theory of evolution by natural selection proposed at approximately the same time There is no doubt that the periodic table occupies a central position in chemistry In its modern form it is reproduced in most undergraduate

inorganic textbooks and is present in almost every chemistry lecture room and classroom This first volume provides chemists with an account of the historical development of the Periodic Table and an overview of how the Periodic Table has evolved over the last 150 years It also illustrates how it has guided the research programmes of some distinguished chemists

Isotopes and the Natural Environment Paul Alexandre, 2020-01-27 This book provides straightforward and practical information on isotopes applied to a variety of natural sciences It covers the basics of isotopes and includes detailed examples from a range of natural sciences ecology biology human health environment and climate geography and geology highlighting their applicability in these fields It is a must read for all advanced undergraduate and graduate students working with isotopes regardless of the area and is a very useful one stop resource for scientists starting in isotope research **Mud**

and Mudstones Paul E. Potter, J. B. Maynard, Pedro J. Depetris, 2005-08-02 Mud and mudstone the most abundant of all sediments and sedimentary rocks are relevant to many different human activities and disciplines and thus have a widely scattered literature Our book provides the first elementary overview of mud and mudstone written for a broad spectrum of professionals teachers and students in geology petroleum geology and engineering urban planning and development paleontology and paleoecology and architecture and archaeology Mud and mudstone provide the foundations to master all their aspects and prepares you to dig deeply into the many fascinating questions of their origin relationships to earth history and practical uses Key topics include the production of mud its transport the important role of bottom oxygen sites of deposition burial provenance mudstones in basins and an overview of practical uses followed by an appendix and extended glossary **Stable Isotopes in Ecological Research** P.W. Rundel, J.R. Ehleringer, K.A. Nagy, 2012-12-06 The analysis of

stable isotope ratios represents one of the most exciting new technical advances in environmental sciences In this book leading experts offer the first survey of applications of stable isotope analysis to ecological research Central topics are plant physiology studies food webs and animal metabolism biogeochemical fluxes Extensive coverage is given to natural isotopes of carbon hydrogen oxygen nitrogen sulfur and strontium in both terrestrial and marine ecosystems Ecologists of diverse research interests as well as agronomists anthropologists and geochemists will value this overview for its wealth of information on theoretical background experimental approaches and technical design of studies utilizing stable isotope ratios

Antarctic Earth Science R. L. Oliver, P. R. James, J. B. Jago, 1983 The fourth international symposium on Antarctic Earth Sciences took place in Adelaide South Australia during the week 16-20 August 1982 This volume contains a record of the centenary activities celebrating Sir Douglas Mawson and the one hundred and seventy four papers that were presented by delegates for discussion over the five days Sir Douglas Mawson was part of the first team to reach the magnetic South Pole a leading geologist and scientific figure during the heroic age of of antarctic exploration The papers presented during the symposium were divided into fifteen categories covering east and west Antarctica marine land and glacial geology plate tectonics islands peninsulas climatic change and Precambrian and Cenozoic era activity The two hundred persons from

sixteen countries who attended the symposium brought together a wide range of the most current expertise and research to share of which this volume provides a record **Canadian Geotechnical Conference** ,1999 **Lectures in Isotope Geology** E. Jäger,J.C. Hunziker,2012-12-06 Our colleagues from the French speaking parts of Switzerland the Suisses romands and above all the committee of the 3rd Cycle e Earth Sciences 3 Cycle Sciences de la Terre honored us by asking us to give a course on Isotope Geology for the year 1977 The course entitled Evaluation et Interpretation des Donnees Isotopiques eval uation and Interpretation of Isotopic Data was intended to inform earth scientists graduate and postgraduate from the western Swiss Universities on the subject of Isotope Geology Such courses usually consist of two parts lectures and excursions Thus in March 1977 we gave such a two week course at the Miner alogical Institute of the University of Berne The first week was devoted essentially to the methods of dating the second week to the behavior of stable isotopes In July 1977 on the occasion of an excursion to the Central and Western Alps we were able to demonstrate our results Guest professors were invited to make contributions to the course **Abstracts of North American Geology** ,1968 Natural and Anthropogenic Hazards in Karst Areas Mario Parise,John Gunn,2007 The book presents an overview of the main hazards affecting karst including collapse and subsidence phenomena hydrological hazards and human induced geohazards Consideration is also given to the problems of geohazard management in karst The geological and hydrological properties of karst terrains make them among the most fragile in the world and pose serious problems for land managers Sustainable development in these terrains requires efforts to limit geohazards of anthropogenic origin and to recognize and mitigate against those of natural origin Aimed at providing the reader with worldwide case studies the contributions cover a range of geological and morphological settings Geographically the fourteen papers discuss very different karst areas from North America the Caribbean and Asia to several karst areas in Europe including the British Isles Spain France and Italy

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