



# Radioactive and Stable Isotope Geology

Second Edition  
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# Radioactive And Stable Isotope Geology

**Geological Survey (U.S.)**



## **Radioactive And Stable Isotope Geology:**

*Radioactive and Stable Isotope Geology* H.-G. Attendorn, R. Bowen, 2012-12-06 Accelerating progress in the application of radioactive and stable isotope analysis to a varied range of geological and geochemical problems in geology has required a complete revision of *Isotopes in the Earth Sciences* published in 1988. This new book comprises four parts: the first introduces isotopic chemistry and examines mass spectroscopic methods; the second deals with radiometric dating methods; Part Three examines the importance of isotopes in climate environmental studies and increasingly significant area of research; The last part looks at extra terrestrial matter, geothermometry and the isotopic geochemistry of the Earth's lithosphere. Post graduate and post doctoral researchers in geochemistry as well as final year undergraduates in the earth and environmental sciences will find *Radioactive and Stable Isotope Geology* an invaluable up to date and thorough treatment of the theory and practice of isotope geology.

*Isotope Geochemistry* William M. White, 2014-11-24 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.

***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 companies      Biogeochemistry and the Environment Michael O'Neal Campbell, 2023-12-14 Biogeochemistry may be defined as the science that combines biological and chemical perspectives for the examination of the Earth's surface including the relations between the biosphere lithosphere atmosphere and hydrosphere Biogeochemistry is a comparatively recently developed science that incorporates scientific knowledge and findings research methodologies and models linking the biological chemical and earth sciences Therefore while it is a definitive science with a strong theoretical core it is also dynamically and broadly interlinked with other sciences This book examines the complex science of biogeochemistry from a novel perspective examining its comparatively recent development while also emphasizing its interlinked relationship with the earth sciences including the complementary science of geochemistry the geographical sciences biogeography oceanography geomatics earth systems science the biological sciences ecology wildlife studies biological aspects of environmental sciences and the chemical sciences including environmental chemistry and pollution The book covers cutting edge topics on the science of biogeochemistry examining its development structure interdisciplinary multidisciplinary and transdisciplinary relations and the future of the current complex knowledge systems especially in the context of technological developments and the computer and data fields      *Geochemistry and isotope Geology* Mr. Rohit Manglik, 2024-07-30 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      Encyclopedia of Geology , 2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

**Hydrogeology** Kevin M. Hiscock, Victor F. Bense, 2014-04-07 Hydrogeology Principles and Practice provides a comprehensive introduction to the study of hydrogeology to enable the reader to appreciate the significance of groundwater in meeting current and future water resource challenges This new edition has been thoroughly updated to reflect advances in the field since 2004 The book presents a systematic approach to understanding groundwater Earlier chapters explain the

fundamental physical and chemical principles of hydrogeology and later chapters feature groundwater investigation techniques in the context of catchment processes as well as chapters on groundwater quality and contaminant hydrogeology. Unique features of the book are chapters on the applications of environmental isotopes and noble gases in the interpretation of aquifer evolution and on regional characteristics such as topography compaction and variable fluid density in the explanation of geological processes affecting past present and future groundwater flow regimes. The last chapter discusses groundwater resources and environmental management and examines the role of groundwater in integrated river basin management including an assessment of possible adaptation responses to the impacts of climate change. Throughout the text boxes and a set of colour plates drawn from the authors teaching and research experience are used to explain special topics and to illustrate international case studies ranging from transboundary aquifers and submarine groundwater discharge to the over pressuring of groundwater in sedimentary basins. The appendices provide conversion tables and useful reference material and include review questions and exercises with answers to help develop the reader's knowledge and problem solving skills in hydrogeology. This accessible textbook is essential reading for undergraduate and graduate students primarily in earth sciences environmental sciences and physical geography with an interest in hydrogeology or groundwater science. The book will also find use among practitioners in hydrogeology soil science civil engineering and planning who are involved in environmental and resource protection issues requiring an understanding of groundwater. Additional resources can be found at [www.wiley.com/go/hiscock/hydrogeology](http://www.wiley.com/go/hiscock/hydrogeology).

Environmental and Low-Temperature Geochemistry Peter Ryan, 2019-10-21. Environmental and Low Temperature Geochemistry presents conceptual and quantitative principles of geochemistry in order to foster understanding of natural processes at and near the earth's surface as well as anthropogenic impacts and remediation strategies. It provides the reader with principles that allow prediction of concentration speciation mobility and reactivity of elements and compounds in soils waters sediments and air drawing attention to both thermodynamic and kinetic controls. The scope includes atmosphere terrestrial waters marine waters soils sediments and rocks in the shallow crust the temporal scale is present to Precambrian and the spatial scale is nanometers to local regional and global. This second edition of Environmental and Low Temperature Geochemistry provides the most up to date status of the carbon cycle and global warming including carbon sources sinks fluxes and consequences as well as emerging evidence for and effects of ocean acidification. Understanding environmental problems like this requires knowledge based in fundamental principles of equilibrium kinetics basic laws of chemistry and physics empirical evidence examples from the geological record and identification of system fluxes and reservoirs that allow us to conceptualize and understand. This edition aims to do that with clear explanations of fundamental principles of geochemistry as well as information and approaches that provide the student or researcher with knowledge to address pressing questions in environmental and geological sciences. New content in this edition includes Focus Boxes one every two or three pages providing case study

examples e.g. methyl isocyanate in Bhopal origins and health effects of asbestiform minerals concise explanations of fundamental concepts e.g. balancing chemical equations isotopic fractionation using the  $K_{eq}$  to predict reactivity and useful information e.g. units of concentration titrating to determine alkalinity measuring redox potential of natural waters Sections on emerging contaminants for which knowledge is rapidly increasing e.g. perfluorinated compounds pharmaceuticals and other domestic and industrial chemicals Greater attention to interrelationships of inorganic organic and biotic phases and processes Descriptions theoretical frameworks and examples of emerging methodologies in geochemistry research e.g. clumped C-O isotopes to assess seawater temperature over geological time metal stable isotopes to assess source and transport processes X-ray absorption spectroscopy to study oxidation state and valence configuration of atoms and molecules Additional end of chapter problems including more quantitatively based questions Two detailed case studies that examine fate and transport of organic contaminants VOCs PFCs with data and interpretations presented separately These examples consider the chemical and mineralogical composition of rocks soils and waters in the affected system microbial influence on the decomposition of organic compounds the effect of reduction/oxidation on transport of Fe As and Mn stable isotopes and synthetic compounds as tracers of flow geological factors that influence flow and implications for remediation The interdisciplinary approach and range of topics including environmental contamination of air water and soil as well as the processes that affect both natural and anthropogenic systems make it well suited for environmental geochemistry courses at universities as well as liberal arts colleges

**The Geology of Germany** Martin Meschede, Laurence N. Warr, 2019-02-26 This richly illustrated book presents Germany's geological evolution in the context of the Earth's dynamic history It starts with an introduction to Geology and explains the plate tectonic development as well as the formation of both ancient and recent mountain belts namely the Caledonian Variscan and the modern day Alps that formed this part of Europe A dedicated chapter discusses the origin of earthquakes in Germany the occurrence of young volcanic rocks and the various episodes of rock deformation and metamorphism at these complex crossroads of plate tectonic history The book highlights Germany's diverse geological history ranging from the origin of the Earth the formation of deep crystalline rocks and their overlying sedimentary sequences to its more recent ice age quaternary cover The last chapter addresses the shaping of the modern landscape Though the content is also accessible for non-geologists it is primarily intended for geoscience students and an academic audience

**A Dictionary of Geology and Earth Sciences** Michael Allaby, 2020-01-09 This new edition includes 10 000 entries which cover all areas of geoscience including planetary science oceanography palaeontology mineralogy and volcanology In this edition 675 new entries have been added and include expanded coverage of planetary geology and earth observing satellites Other new entries terms such as Iannamox Boomerangian earth rheological layering and metamorphic rock classification The entries are also complemented by more than 130 diagrams and numerous web links that are listed on a regularly updated dedicated companion website Appendices supplement the A-Z and have been extended to include three

new tables on the Torino Impact Hazard Scale Avalanche Classes and the Volcanic Explosivity Index The list of satellite missions has also been revised and updated to include recent developments A Dictionary of Geology and Earth Sciences is an authoritative and jargon free resource for students of geology geography geosciences physical science and those in related disciplines *GEOLOGY- Volume II* Benedetto De Vivo, Bernhard Grasemann, Kurt Stüwe, 2009-12-11 Geology is the Component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias The theme on geology in the Encyclopedia of Earth and Atmospheric Sciences presents many aspects of geology under the following nine different topics The Organized Earth Tectonics and Geodynamics Igneous and Metamorphic Petrology Sedimentary Geology and Paleontology Overview of the Mineralogical Sciences Geology of Metallic and Non Metallic Mineral Resources Regional Geology Geology of Petroleum Gas and Coal Environmental and Engineering Geology **Library of Congress Subject Headings** Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2007 **Nuclear Methods in Mineralogy and Geology** Attila Vértes, Sándor Nagy, Károly Süvegh, 2012-12-06 This book appears a century after the discovery of radioactivity It was in 1896 when Henri Becquerel reported his first results about the penetrating radiation which could darken the packed photographic plates The initial fascination of radioactivity e g the discovery of new radioactive elements the first real description of the structure of atoms and their nuclei the applications of radiotracers the high sensitivity of activation analysis etc was followed by the use of atomic bomb in 1945 The mushroom cloud became a symbol of destructive nuclear power And even nuclear energy production which provides about 20% of the world's electricity is overshadowed by radioactive waste However the latest results suggest that the Accelerator Driven Transmutation Technology ADTT will solve this problem since this technique can decrease the lifetime of the fission products comparatively to the human lifespan Practical control of fusion may also be possible in the first decades of the next millennium

**Scientific and Technical Aerospace Reports**, 1967 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Groundwater Age Gholam A. Kazemi, Jay H. Lehr, Pierre Perrochet, 2006-07-14 Groundwater Age is the first book of its kind that incorporates and synthesizes the state of the art knowledge about the business of groundwater dating including historical development principles applications various methods and likely future progress in the concept It is a well organized advanced clearly written resource for all the professionals scientists graduate students consultants and water sector managers who deal with groundwater and who seek a comprehensive treatment of the subject of groundwater age **New Publications of the Geological Survey** Geological Survey (U.S.), 1991

Introduction to Isotope Hydrology Willem Gerrit Mook, 2006 This publication presents in a simple but scientifically

rigorous manner the consequences of natural processes to stable isotope concentrations and radioactivities and discusses the implications of these processes      **U.S. Geological Survey Professional Paper** ,1963      *Isotopic Tracers in Surface Water* M. Lee Davisson,2002



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