

Radioactive and Stable Isotope Geology

H. - G. Attendorn
and R. N. C. Bowen



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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

Introduction to Isotope Hydrology Willem Gerrit Mook, 2006 The application of natural isotopes stable as well as radioactive has become a widespread tool for hydrological research especially surface and groundwater behaviour and exploration This book explains in a simple but mathematically physically and chemically correct form the consequences of natural processes to stable isotope concentrations and radioactivities It also presents indications of possible applications without the pretention of a cookbook After a fairly theoretical introduction the elements of the water cycle are treated successively precipitation surface water including rivers and small streams lakes and stagnant waters estuaries and the sea and groundwater

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

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

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Hydrogeology Kevin M. Hiscock, Victor F. Bense, 2014-06-03 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

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 Ianamnox 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 **Chemistry of the Environment** Ronald A. Bailey, 2002-03-21 This new edition of Chemistry of the Environment emphasises several major concepts proving to be essential to the practice of environmental chemistry at the beginning of the new millennium 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 **Nuclear Geophysics** V.I. Ferronsky,2015-01-13 The fundamentals of methods in nuclear geophysics and their practical applications in engineering geology hydrology hydrogeology agriculture and environmental science are discussed in this book The methods and apparatus based on absorption and scattering of gamma and neutron radiation for determination of density and soil moisture in natural conditions are presented in Chapters 2 3 and 4 The theoretical fundamentals and installations of the penetration logging techniques where gamma gamma gamma and neutron logging in combination with static penetration form common complexes for engineering geology and hydrogeology exploration without boring holes are described The developed constructions and practical use penetration logging installations for applications on land and marine shelves are described in Chapters 5 6 7 and 8 The physical fundamentals for the use of the natural stable and radioactive isotopes for study of the global hydrological cycle are provided The experimental data origin and distribution of cosmogenic and radiogenic isotopes in the oceans atmospheric moisture surface and underground waters are presented in Chapters 9 10 and 11 The sources and conditions of the radioactive contamination of the natural waters are discussed in Chapters 12 and 13 This book will be of interest to scientists and researchers who use nuclear geophysics methods in engineering geology hydrology hydrogeology and hydrogeoecology Lecturers students and postgraduates in these subjects will also find it useful 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 *Library of Congress Subject Headings* Library of Congress. Office for Subject Cataloging Policy,1991

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Geological Survey Professional Paper Geological Survey (U.S.),1984

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