

Jochen Hoefs

# Stable Isotope Geochemistry

*Seventh Edition*

 Springer

# Stable Isotope Geochemistry

**Irving Friedman, James R. O'Neil**



## **Stable Isotope Geochemistry:**

**Stable Isotope Geochemistry** Jochen Hoefs, 2013-04-17 Stable Isotope Geochemistry is an introduction to the use of stable isotopes in the fields of geoscience. It is subdivided into three parts: theoretical and experimental principles, fractionation mechanisms of light elements, the natural variations of geologically important reservoirs. In this updated 4th edition, many of the chapters have been expanded, especially those on techniques and environmental aspects. The main focus is on recent results and new developments. For students and scientists alike, the book will be a primary reference with regard to how and where stable isotopes can be used to solve geological problems.

**Stable Isotope Geochemistry** Jochen Hoefs, 2008-12-11 Stable Isotope Geochemistry is an introduction to the use of stable isotopes in the geosciences. It is subdivided into three parts: theoretical and experimental principles, fractionation processes of light and heavy elements, the natural variations of geologically important reservoirs. Since the application of stable isotopes to earth sciences has grown in the last few years, a new edition appears necessary. Recent progress in analysing the rare isotopes of certain elements for instance, allow the distinction between mass dependent and mass independent fractionations. Special emphasis has been given to the growing field of heavy elements. Many new references have been added which will enable quick access to recent literature. For students and scientists alike, the book will be a primary source of information with regard to how and where stable isotopes can be used to solve geological problems.

**Stable Isotope Geochemistry** J. Hoefs, 2013-06-29 Over 10 years have passed since RANKAMA's second book, Progress in Isotope Geology, surveyed the literature on isotope abundance determinations. In the meantime, the number of measurements and publications has increased enormously. Therefore, it seems necessary to summarize the knowledge in this field in the light of more recent developments. The title of this book was chosen because the whole field of radio active isotope geochemistry has been deliberately omitted. The book is divided into three parts. Section A gives the theory of isotope effects and the technical background, both aspects being discussed rather briefly. The author regrets some shortcomings in the introductory section, especially in the theoretical treatment of isotope fractionation, but he has been trained mainly in earth sciences rather than in physical chemistry. Section B gives a summary of the fractionation mechanisms affecting the most important elements: hydrogen, carbon, oxygen, and sulfur. Further, it surveys some other elements that have not yet been as thoroughly investigated. Section C surveys the most important results from a geological standpoint. In some cases, the opinions of different authors on the same subject are summarized without comment, because the field of stable isotope geology is growing so rapidly that a final answer cannot be given at the moment. It is obvious that in writing this book, which is of the survey type, the author could not rely only on his own experiments and experience.

**Stable Isotope Geochemistry** Jochen Hoefs, 2015-07-09 Stable Isotope Geochemistry is an introduction to the use of stable isotopes in the geosciences. For students and scientists alike, the book will be a primary source of information with regard to how and where stable isotopes can be used to solve geological problems. It is subdivided into three

parts i theoretical and experimental principles ii fractionation processes of light and heavy elements iii the natural variations of geologically important reservoirs In the last decade major advances in multicollector ICP mass spectrometry enable the precise determination of a wide range of transition and heavy elements Progress in analysing the rare isotopes of certain elements allows the distinction between mass dependent and mass independent fractionations These major advances in analytical techniques make an extended new edition necessary Special emphasis has been given to the growing field of non traditional isotope systems Many new references have been added which will enable quick access to recent literature

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

Calcium Stable Isotope Geochemistry Nikolaus Gussone, Anne-Désirée Schmitt, Alexander Heuser, Frank Wombacher, Martin Dietzel, Edward Tipper, Martin Schiller, 2016-05-02 This book provides an overview of the fundamentals and reference values for Ca stable isotope research as well as current analytical methodologies including detailed instructions for sample preparation and isotope analysis As such it introduces readers to the different fields of application including low temperature mineral precipitation and biomineralisation Earth surface processes and global cycling high temperature processes and cosmochemistry and lastly human studies and biomedical applications The current state of the art in these major areas is discussed and open questions and possible future directions are identified In terms of its depth and coverage the current work extends and complements the previous reviews of Ca stable isotope geochemistry addressing the needs of graduate students and advanced researchers who want to familiarize themselves with Ca stable isotope research

Stable Isotope Geochemistry John W. Valley, David R. Cole, 2018-12-17 Volume 43 of Reviews in Mineralogy and Geochemistry follows the 1986 Reviews in Mineralogy Vol 16 in approach but reflects significant changes in the field of Stable Isotope Geochemistry In terms of new technology new sub disciplines and numbers of researchers the field has

changed more in the past decade than in any other since that of its birth Unlike the 1986 volume which was restricted to high temperature fields this book covers a wider range of disciplines However it would not be possible to fit a comprehensive review into a single volume Our goal is to provide state of the art reviews in chosen subjects that have emerged or advanced greatly since 1986 This volume was prepared for Short Course on Stable Isotope Geochemistry presented November 2-4 2001 in conjunction with the annual meetings of the Geological Society of America in Boston Massachusetts *Stable Isotopes in High Temperature Geological Processes* John W. Valley, Hugh P. Taylor, James R. O'Neil, 2018-12-17 Volume 16 of *Reviews in Mineralogy* introduces to high temperature stable isotope geochemistry and should provide an entry into the pertinent literature as well as some understanding of the basic concepts and potential applications The first three chapters focus on the theory and experimental data base for equilibrium disequilibrium and kinetics of stable isotope exchange reactions among geologically important minerals and fluids The fourth chapter discusses the primordial oxygen isotope variations in the solar system prior to formation of the Earth along with a discussion of isotopic anomalies in meteorites The fifth chapter discusses isotopic variations in the Earth's mantle and the sixth chapter reviews the variations in the isotopic compositions of natural waters on our planet In Chapters 7-9 and 10 these isotopic constraints and concepts are applied to various facets of the origin and evolution of igneous rocks bringing in much material on radiogenic isotopes as well because these problems require a multi dimensional attack for their solution In Chapters 11 and 12 the problems of hydrothermal alteration by meteoric waters and ocean water are considered together with discussions of the physics and chemistry of hydrothermal systems and the  $^{18}\text{O}$ / $^{16}\text{O}$  history of ocean water Finally in Chapters 13 and 14 these concepts are applied to problems of metamorphic petrology and ore deposits particularly with respect to the origins of the fluids involved in those 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 Non-Traditional Stable Isotopes Fang-Zhen Teng, James Watkins, Nicolas Dauphas, 2017-03-06 The development of multi collector inductively coupled plasma mass spectrometry MC-ICPMS makes it possible to precisely

measure non traditional stable isotopes This volume reviews the current status of non traditional isotope geochemistry from analytical theoretical and experimental approaches to analysis of natural samples In particular important applications to cosmochemistry high temperature geochemistry low temperature geochemistry and geobiology are discussed This volume provides the most comprehensive review on non traditional isotope geochemistry for students and researchers who are interested in both the theory and applications of non traditional stable isotope geochemistry 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

**Principles of Stable Isotope Geochemistry** Zachary Sharp, 2007 This is the first dedicated book to cover the basics of a wide range of stable isotope applications in a manner appropriate for someone entering the field At the same time it offers sufficient detail and numerous references and examples to direct research for further inquiry Discusses diverse topics such as hydrology carbon in plants meteorites carbonates metamorphic rocks etc Explores the theory and principles of isotope fractionation Offers unique up to date discussion of meteorite extraterrestrial isotope data Presents the subject in an interesting historical context with the classic papers noted A useful reference for students taking the course and professionals entering the field of Geochemistry

**Principles of Stable Isotope Distribution** Robert E. Criss, 1999-06-03 This book presents a quantitative treatment of the theory and natural variations of light stable isotopes It discusses isotope distribution in the context of fractionation processes thermodynamics mass conservation exchange kinetics and diffusion theory and includes more than 100 original equations The theoretical principles are illustrated with natural examples that emphasize oxygen and hydrogen isotope variations in natural waters terrestrial and extraterrestrial rocks and hydrothermal systems New data on meteoric precipitation rivers springs formation fluids and hydrothermal systems are included in relation to various natural phenomena Essentially this book seeks to reconnect the diverse phenomenological observations of isotope distribution to the quantitative theories of physical chemistry and the language of differential equations It may serve as a textbook for advanced students as a research reference or as a quick source of information The book is organized into five chapters each followed by suggested quantitative problems and a short reference list The three theoretical chapters

progress from an elementary review of the physical chemistry of stable isotopes to the thermodynamics of isotopic compounds and finally to the calculation of isotope distribution in dynamic systems The third and fifth chapters emphasize oxygen and hydrogen isotope variations in Earth's hydrosphere and lithosphere constituting the most important examples of the theoretical principles Appendices provide data on atomic weights of light elements physical constants mathematical relationships and isotopic fractionation factors Stable Isotopes in Sedimentary Geology Michael A. Arthur, 1983 The Terrestrial Environment, B. P. Fritz, 2013-10-22 Handbook of Environmental Isotope Geochemistry Volume 2 The Terrestrial Environment B focuses on the processes methodologies principles and approaches involved in isotope geochemistry The selection first elaborates on mathematical models for the interpretation of environmental radioisotopes in groundwater systems isotopes in cloud physics and environmental isotopes in lake studies Discussions focus on water balance studies of lakes isotopic fractionations during evaporation of water study of halite growth mechanisms by means of isotopic analyses isotopic effects during growth of individual elements and models and their hydrological significance The text then takes a look at environmental isotope and anthropogenic tracers of lake sedimentation stable isotope geochemistry of travertines and isotope geochemistry of carbonates in the weathering zone Topics include isotopic composition of carbonates in the weathering zone reprecipitation processes in the weathering zone isotopic composition of carbon and oxygen sources in the weathering zone and geochemical conditions controlling travertine deposition The manuscript also reviews radioactive noble gases in the terrestrial environment isotope effects of nitrogen in the soil and biosphere and oxygen and hydrogen isotope geochemistry of deep basin brines The selection is a vital source of data for researchers interested in isotope geochemistry

**The Geochemistry of Stable Chlorine and Bromine Isotopes** Hans Egginkamp, 2025-01-01 This book provides detailed information on the history analysis and applications of chlorine and bromine isotope geochemistry This largely extended 2nd edition has incorporated most research published between 2014 and 2023 and contains also significantly more information on the earliest experimental data obtained during the early 20th century This 2nd edition describes isotope studies done on terrestrial samples and also incorporates the fascinating chlorine and bromine isotope ratio investigations obtained from extraterrestrial and astronomical studies and thus it shows the full extent of the current status of knowledge of this subject **Data of Geochemistry** Irving Friedman, James R. O'Neil, 1977 Isotope separation factors for the stable

isotopes of hydrogen carbon oxygen and sulfur are plotted as a function of temperature in degrees Celsius *Lectures in Isotope Geology* E. Jäger, J. C. Hunziker, 1979 Our colleagues from the French speaking parts of Switzerland the Swiss romands and above all the committee of the 3rd Cycle of 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 Données Isotopiques evaluation 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 Mineralogical 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

**Iron Geochemistry: An Isotopic Perspective** Clark

Johnson, Brian Beard, Stefan Weyer, 2020-01-09 This book provides a comprehensive summary of research to date in the field of stable iron isotope geochemistry Since research began in this field 20 years ago the field has grown to become one of the major research fields in non traditional stable isotope geochemistry This book reviews all aspects of the field from low temperature to high temperature processes biological processes and cosmochemical processes It provides a detailed history and state of the art summary about analytical methods to determine Fe isotope ratios and discusses analytical and sample prospects

**Triple Oxygen Isotope Geochemistry** Ilya N. Bindeman, Andreas Pack, 2021-02-22 Volume 86 of Reviews in

Mineralogy and Geochemistry concentrates on understanding the variations among ratios of the three isotopes of oxygen with primary emphasis on terrestrial systems Triple oxygen isotope variations may be related to large mass independent fractionation effects such observed in the Earth atmosphere or may be small and related to minute variations due to purely mass dependent processes Recent advancements in analytical resolution now allow for the identification of processes and distinct reservoirs that were formerly hidden in the paradigm of a single terrestrial fractionation line New high resolution measurements are accompanied by advances in theoretical calculations that dovetail with empirical calibrations and applications throughout this volume 14 chapters span a wide range of subjects from ab initio theoretical approaches to observation of triple oxygen isotope variations in the Earth litho hydro and atmosphere



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