

Jochen Hoefs

Stable Isotope Geochemistry

Seventh Edition

 Springer

Stable Isotope Geochemistry

Jochen Hoefs

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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, 1973 *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 is 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. **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.

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, 8, 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}O ^{16}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.

Stable Isotopes in Sedimentary Geology Michael A. Arthur, 1983

The Top Books of the Year Stable Isotope Geochemistry The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Stable Isotope Geochemistry : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Stable Isotope Geochemistry : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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