

Stable Isotope Geochemistry

By Jochen Hoefs

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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.

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"This book forms an introduction to the wide range of applications of stable isotopes in geosciences. It is subdivided into … . The book forms a primary source of information with regard to how and where stable isotopes can be used to solve geological problems. This admirable overview presents an enormous … . The book is fluently written and easy to read. It certainly deserves its place in all scientific libraries and on the book shelf of numerous earth scientists … ." (Philippe Muchez, Geologica Belgica, Vol. 8(1-2), 2005)

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"Stable Isotope Geochemistry is … an introduction to the use of stable isotopes in the earth sciences. … contains 78 figures and 18 tables; they are valuable, complement the text, and facilitate understanding. The 43 pages of references serve as an excellent resource for the entire area of stable isotope geochemistry. ... a classical but state-of-the-art authoritative book, systematically structured, concisely written and full of much useful information. I highly recommend it to advanced undergraduate and graduate students and to researchers … ." (Xiqiu Han, Journal of Sedimentary Research, September, 2004)

"In its fifth edition, this is an exquisite, no-nonsense, very clearly written primer on stable isotope geochemistry. … Not only is this a very good textbook and primer, it is a superb reference book on stable isotope geochemistry. … Hoefs' textbook can be fully recommended to sit on the desk of any geochemist or geoscientist (student and experienced colleague alike) dealing with stable isotopes." (Jörg Matschullat, Environmental Geology, Vol. 49, 2006)

"Professor Hoefs defines stable isotopes as atoms whose nuclei contain the same number of protons, but a different number of neutrons. … This book contains an exceptional list of literature references for additional study on specific topics. Hoefs' book is a very valuable reference for individuals and companies engaged in isotopic studies and is very reasonably priced." (Robert F. Ehinger, American Association of Petroleum Geologists, Vol. 89 (1), January, 2005)

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