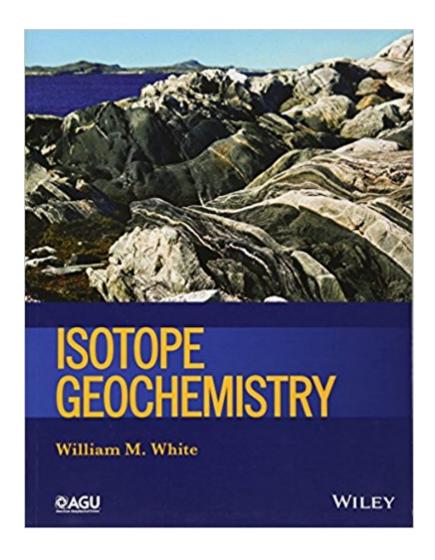


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Isotope Geochemistry (Wiley Works)





Synopsis

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 Earthââ \neg â"¢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 ââ \neg ˜clumpingââ \neg â"¢. The final chapter reviews the isotopic variation in the noble gases, which result from both radioactive decay and chemical fractionations.

Book Information

Series: Wiley Works Paperback: 496 pages Publisher: Wiley-Blackwell; 1 edition (January 27, 2015) Language: English ISBN-10: 0470656700 ISBN-13: 978-0470656709 Product Dimensions: 8.6 × 0.9 × 11 inches Shipping Weight: 1.6 ounces (View shipping rates and policies) Average Customer Review: 4.3 out of 5 stars 4 customer reviews Best Sellers Rank: #648,545 in Books (See Top 100 in Books) #77 inà Â Books > Science & Math > Chemistry > Geochemistry #126 inà Â Books > Science & Math > Earth Sciences > Mineralogy #150 inà Â Books > Science & Math > Earth Sciences > Geophysics

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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 Earthââ ¬â,,¢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 â⠬˜clumpingââ ¬â,,¢. The final chapter reviews the isotopic variation in the noble gases, which result from both radioactive decay and chemical fractionations.

William White teaches geochemistry as a Professor of earth and atmospheric sciences at Cornell University. He received a B.A. in geology from the University of California, Berkeley and a PhD in oceanography from the University of Rhode Island. He is a Fellow of the Geochemical Society/European Association of Geochemistry and the AGU and has been named a highly cited author by ISI. He is the author of Geochemistry, also published by Wiley-Blackwell.

A very well written, up-to-date, and thorough treatise of isotope geochemistry. An excellent reference or textbook for undergraduate or graduate students.

Great

Highly recommended! A well written textbook for serious undergraduate and graduate students.

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