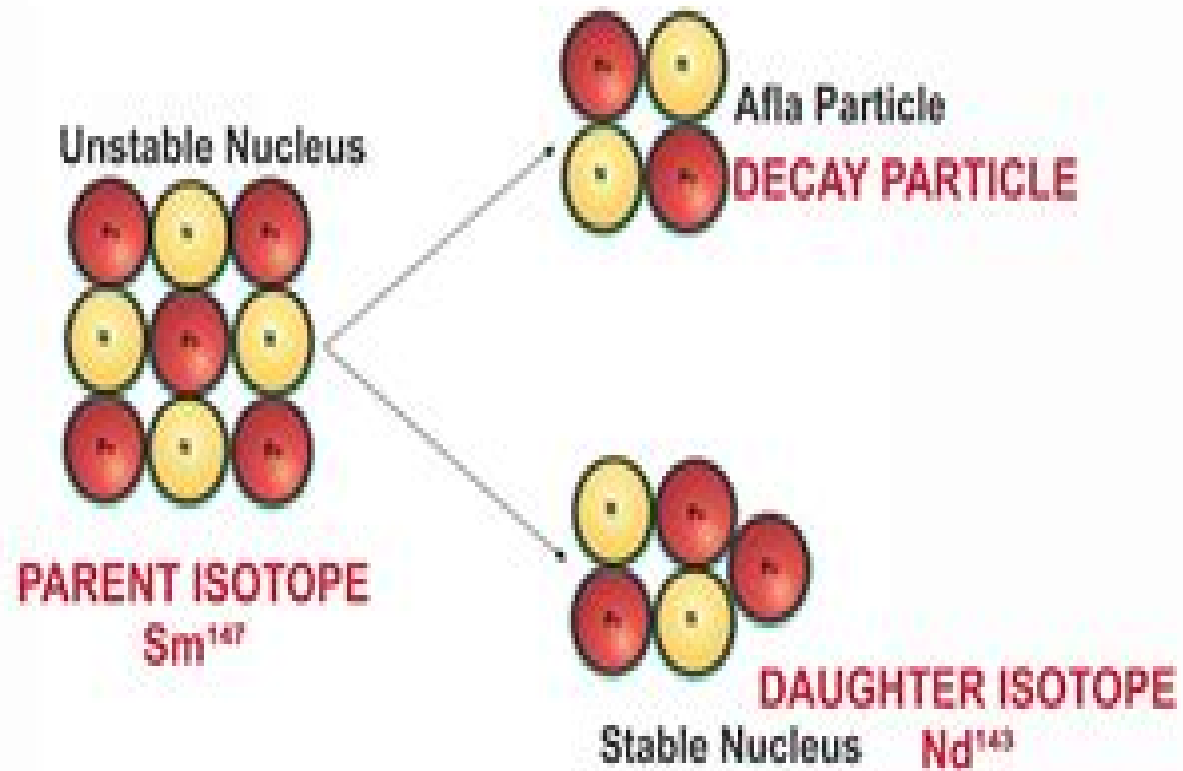


## INTRODUCTION TO THE STUDY OF UNSTABLE ISOTOPES



# Isotope Geology

**Claude J. Allègre**



## Isotope Geology:

*Strontium Isotope Geology* G. Faure, J. L. Powell, 2012-12-06 Since the end of World War II isotope geology has grown into a diversified and complex discipline in the earth sciences. It has progressed by the efforts of a relatively small number of specialists many of whom are physicists, chemists or mathematicians who were attracted to the earth sciences by the opportunity to measure and to interpret the isotopic compositions of certain chemical elements in geological materials. The phenomenal growth of isotope geology during the last 25 years is an impressive indication of the success of their efforts. We have now entered into a new phase of development of isotope geology which emphasizes the application of the new tools to the solution of specific problems in the earth and planetary sciences. This requires the active participation of a new breed of geologists who understand the nature and complexity of geological problems and can work toward their solution by a thoughtful application of the principles of isotope geology. It is therefore necessary to explain these principles to earth scientists at large to enable them to make use of the new information which isotope geology can offer them. Principles of Isotope Geology Gunter Faure, 1977 This wide ranging text in isotope geology geoscience allows students to integrate material taught in various courses into a unified picture of the earth sciences. Gives a rational exposition of the principles used in the interpretation of isotopic data and shows how such interpretations apply to the solution of geological problems. Current with references up to 1985 chapters in this edition have been revised and new chapters on Sm Nd Lu Hf Re Os and K Ca decay schemes and cosmogenic radionuclides have been added. Data summaries and references have been expanded. Also includes problems for student study and abundant line drawings with explanatory captions. **Lectures in Isotope Geology** E. Jäger, J.C. Hunziker, 2012-12-06 Our colleagues from the French speaking parts of Switzerland the Suisses romands and above all the committee of the 3rd Cycle e 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 Donnees 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. **Radiogenic Isotopes in Geologic Processes** Sergei V. Rasskazov, Sergei B. Brandt, Ivan S. Brandt, 2009-11-23 Do we actually understand geologic processes? New technology brings new information and perceptions which sometimes overturn imaginations based on simple observation and estimation in conjunction with common sense inference. In 1902-1904 Pierre Curie and Ernest Rutherford first formulated the idea of using radioactive transformation of nuclides as a geologic chronometer. After a century of working with

such tools geology has advanced from a descriptive science to an analytic science that formulates conclusions based on exact values. The technology of radiogenic isotope geology has created a branch of science that considers the Earth as a planet generated within a Solar system and studies the subsequent evolution of geologic processes that has resulted in the present formation of our planet's continents and oceans. The physicist Vitaly Ginsburg, Nobel Prize laureate, wrote recently: "If Kepler had been given information on orbital parameters of planets with modern precision, he would not have been able to formulate his laws. Indeed, after development of laws of celestial mechanics, methods of measurements became so advanced and such numerous secondary distortion effects were found that to describe an orbit of a cosmic body by a curve of the second order would appear impossible. But it does not mean that Kepler's laws are cancelled; they still occupy an honorable place in courses on celestial mechanics. A reasonable division into basic and secondary phenomena is accepted and the latter are entered as variations in the basic equations."

*Radiogenic Isotope Geology* Alan P. Dickin, 2018-02-08. The third edition of *Radiogenic Isotope Geology* examines revolutionary changes in geochemical thinking that have occurred over the past fifteen years. Extinct nuclide studies on meteorites have called into question fundamental geochemical models of the Earth, while new dating methods have challenged conventional views of Earth history. At the same time, the problem of global warming has raised new questions about the causes of past and present climate change. In the new edition, these and other recent issues are evaluated in their scholarly and historical context so readers can understand the development of current ideas. Controversial theories, new analytical techniques, classic papers, and illustrative case studies all come under scrutiny in this book, providing an accessible introduction for students and critical commentary for researchers.

*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.

**Isotope Geochemistry** William M. White, 2014-11-03 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, archaeology, 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.

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 areas 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 Geology* Kalervo Rankama, 1956

**Isotope Geochemistry** Vladimir Kuleshov, 2016-09-13 *Isotope Geochemistry: The Origin and Formation of Manganese Rocks and Ores* is a comprehensive reference on global manganese deposits, including their origins and formations. Manganese is both a significant industrial chemical critical for steel making and a strategic mineral occurring in abundance only in certain countries. Furthermore, it is used effectively in CO<sub>2</sub> sequestration, helping to mitigate greenhouse gas emission challenges around the world. For these reasons, exploration for manganese is very active, yet access to the primary academic literature can be a challenge, especially in field operations. *Isotope Geochemistry* brings this material together in a single source, making it the ideal all-in-one reference that presents the supporting data, analytics, and interpretation from known manganese deposits. This book is an essential resource for researchers and scientists in multiple fields, including exploration and economic geologists, mineralogists, geochemists, and environmental scientists alike. Features coverage of the formation, origins, and deposits of manganese rocks and ores globally, arming geoscientists with a thorough reference on the subject. Includes 170 figures and illustrations that visually capture key concepts. Includes elusive data with supporting analysis and interpretation of deposits in Russia, one of the most robust geographic locations in the world for manganese rock and ore research. **Isotope Geology** Claude J. Allègre, 2008-12-04

Radiogenic and stable isotopes are used widely in the earth sciences to determine the ages of rocks meteorites and archeological objects and as tracers to understand geological and environmental processes Isotope methods determine the age of the Earth help reconstruct the climate of the past and explain the formation of the chemical elements in the Universe This textbook provides a comprehensive introduction to both radiogenic and stable isotope techniques An understanding of the basic principles of isotope geology is important in a wide range of the sciences geology astronomy paleontology geophysics climatology archeology and others Written by one of the world s most respected and best known geochemists this full color textbook will be invaluable for all undergraduate and graduate courses on the topic and is an excellent reference text for scientists There are problems at the end of each chapter with password protected solutions available to instructors at [www.cambridge.org](http://www.cambridge.org) 9780521862288

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Progress in Isotope Geology Kalervo Rankama, 1963

Isotope Geology Claude J. Allègre, 2008 Radiogenic and stable isotopes are used widely in the earth sciences to determine the ages of rocks meteorites and archeological objects and as tracers to understand geological and environmental processes Isotope methods determine the age of the Earth help reconstruct the climate of the past and explain the formation of the chemical elements in the Universe This textbook provides a comprehensive introduction to both radiogenic and stable isotope techniques An understanding of the basic principles of isotope geology is important in a wide range of the sciences geology astronomy paleontology geophysics climatology archeology and others Written by one of the world s most respected and best known geochemists this full color textbook will be invaluable for all undergraduate and graduate courses on the topic and is an excellent reference text for scientists There are problems at the end of each chapter with password protected solutions available to instructors at [www.cambridge.org](http://www.cambridge.org) 9780521862288

**Geological Survey's Work on Isotope Geology of Uranium, Thorium, and Their Decay Products** Ralph Smyser Cannon, 1952

Radiogenic Isotope Geochemistry Bruce F. Schaefer, 2016-06-16 Isotopes provide important information on many geological processes with key relevance to the mining and petroleum industries yet the techniques to obtain process and interpret the data can be complex to master This accessible book provides broad coverage of radiogenic isotopes in geochronology and geochemistry

explaining the basic principles and state of the art techniques used to study them with an emphasis on industry applications. The major isotopic systems are fully summarised with relation to real world applications enabling readers to decide which technique is most relevant for the problem they want to solve and then to rigorously evaluate existing data or recalculate and reassess datasets to avoid duplication of effort. A comprehensive glossary clarifies the numerous acronyms used in the field. Written at a level appropriate for advanced undergraduate students, the book also includes detail which allows more experienced practitioners to maximise the potential value of isotopic datasets.

**Stable Isotope Geochemistry** Jochen Hoefs, 2013-03-09. The first edition of this book was published in 1973, the second totally rewritten followed 7 years later in 1980. Because the field of stable isotopes is still growing and exerting an increasing influence on geosciences in general, it seems to be necessary after a further 7 years to revise the edition again accordingly. Not only has the previous edition been updated, but two completely new chapters on the isotopic composition of mantle derived material and on the isotopic composition of the ocean during the geological past have been added. The references concentrate on recent literature. In some cases older references have been omitted to save space. I do not intend to underrate the value of older publications but only to keep the reference list already very voluminous in relation to the total length from becoming even larger. An early draft has been reviewed by Russell Harmon and Alan Matthews. John Valley has sent me a preprint of an article on metamorphic rocks. To all three of them I owe my deepest thanks.

*Isotope Geology of the Norilsk Deposits* Oleg Petrov, 2019-05-08. The book presents isotope geochemical investigations of the world's largest reserves of copper, nickel, and platinum group elements in the Norilsk ore region. Ever since its discovery, generations of geologists have been fascinated by the geology of these deposits, described as a 250 Ma magmatic formation with mafic and ultramafic layered intrusions disseminated ore and continuous copper-nickel ore bed. The book includes the results of more than 5 000 analyses of eleven isotopic systems performed at the Russian Research Geological Institute's Center of Isotopic Research between 2005 and 2014. The book is intended for specialists in isotope geology, metallogeny, ore geology, and students of geology.

**Geochemistry and isotope Geology** Mr. Rohit Manglik, 2024-07-30. EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels.

Isotope Tracers in Catchment Hydrology C. Kendall, J.J. McDonnell, 1998. *Isotope Tracers in Catchment Hydrology* is the first synthesis of physical hydrology and isotope geochemistry with a catchment focus and is a valuable reference for professionals and students alike in the fields of hydrology, hydrochemistry, and environmental science.

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