

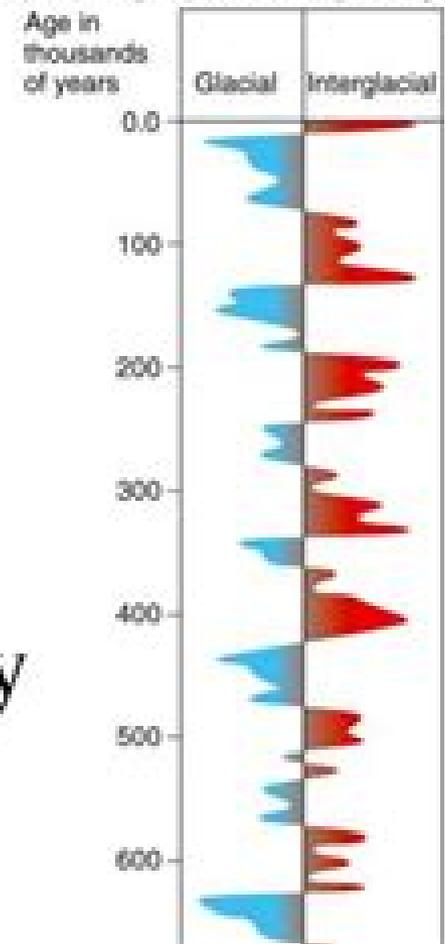
Stable Isotopes

Most elements come in several isotopes. The relative abundance of these isotopes can provide information on ONE of

- source material,
- original chemical reactions,
- post-origin chemical reactions,
- temperature of reaction

if the other variables are sufficiently constrained.

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Food webs and stable isotopes, volume II Jason Newton, Gabriele Stowasser, Rona A. R. McGill, 2023-09-29 [Stable Isotope Geochemistry](#) Jochen Hoefs, 2009-01-13 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

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

Isotope Tracers in Metabolic Research Robert R. Wolfe, David L. Chinkes, 2004-10-18 In the past few years the number of applications of tracers for in vivo biomedical studies has greatly increased New analytical tools at the genetic and protein levels have spurred this growth opening the door for a deeper understanding of metabolic events This in turn promises to yield significant advances in the understanding and treatment of human disease Now fully revised and expanded Isotope Tracers in Metabolic Research Second Edition is the established definitive text on stable and radioactive isotope tracers In unique multidisciplinary fashion it presents comprehensive coverage of new methodological mathematical and theoretical approaches This new Second Edition includes All new chapters on nuclear magnetic resonance mass isotopomer analysis and methods of protein metabolism analysis A completely updated categorized list of over 750 references Major advances in the development of mass isotopomer and positional isotopomer techniques noninvasive isotope techniques for studying metabolic pathways hyphenated techniques and new tracer techniques The latest developments in quantification of DNA synthesis and mass spectrometry spurred by genome sequencing and proteomics New coverage of mathematical modeling Expanded coverage of microdialysis probes laboratory procedures and regulatory issues related to human studies In this complete guide to performing tracer studies the authors systematically cover tracer selection modeling considerations sample derivitization mass spectrometry analysis and data interpretation Problems and discussion questions highlight key points in each chapter Isotope Tracers in Metabolic Research Second Edition offers students and researchers a comprehensive practical resource for utilizing the latest tracer methodologies

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human body Advances in Isotope Methods for the Analysis of Trace Elements in Man describes new methods that are being developed to understand normal and abnormal trace element nutrition and metabolism This book includes a wealth of pr

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