STABLE ISOTOPES GEOCHEMISTRY

Contents

1 Equilibrium Oxygen, Hydrogen and Carbon Isotope Fractionation Factors Applicable to Geologic Systems
   T Chacko, D R Cole, J Horita

83 Rates and Mechanisms of Isotopic Exchange
   D R Cole, S Chakraborty

225 Fractionation of Carbon and Hydrogen Isotopes in Biosynthetic Processes
   J M Hayes

279 Stable Isotopes Variations in Extraterrestrial Materials
   K D Mckeegan, L A Leshin

319 Oxygen Isotope Variations of Basaltic Lavas and Upper Mantle Rocks
   J M Eiler

365 Stable Isotope Thermometry at High Temperatures
   J W Valley

415 Stable Isotope Transports and Contact Metamorphic Fluid Flow
   L P Baumgartner, J W Valley

469 Stable Isotopes in Seafloor Hydrothermal Systems
   W C Shanks III

527 Oxygen- and Hydrogen-Isotopic Ratios of Water in Perception: Beyond Paleothermometry
   R B Alley, K M Cuffey

555 Isotopic Evolution of the Biogeochemical Carbon Cycle During the Precambrian
   D J Des Marais

579 Isotopic Biogeochemistry of Marine Organic Carbon
   K H Freeman

607 Biogeochemistry of Sulfur Isotopes
   D E Canfield

637 Stratigraphic Variation in Marine Carbonate Carbon Isotope Ratios
   R L Ripperdan