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Radioactive and Stable Isotope Geology

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Book Condition: New. Publisher/Verlag: Springer Netherlands | 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 climato-environmental studies, and increasingly significant area 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 isotopic geology. | One General Introduction.- 1 Introduction.- 1.1 Mass spectrometry.- 1.1.1 Historical background.- 1.1.2 A moving charged particle in a magnetic field.- 1.2 Isotope effects and fractionation processes.- 1.2.1 Energy states of a molecule.- 1.2.2 Isotope separation in the laboratory.- 1.3 Spectroscopic methods.- 1.4 Isotope fractionation.- 1.4.1 Exchange reactions and kinetic fractionation.- 1.4.2 Biological fractionation.- 1.5 Secondary changes of isotope ratios.- 2 Nucleosynthesis: Fons et...



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