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Environmental and Low Temperature Geochemistry (Paperback)

By Peter Ryan

John Wiley and Sons Ltd, United Kingdom, 2014. Paperback. Condition: New. Language: English . Brand New Book. Environmental and Low-Temperature Geochemistry presents conceptual and quantitative principles of geochemistry in order to foster understanding of natural processes at and near the earth's surface, as well as anthropogenic impacts on the natural environment. It provides the reader with the essentials of concentration, speciation and reactivity of elements in soils, waters, sediments and air, drawing attention to both thermodynamic and kinetic controls. Specific features include: An introductory chapter that reviews basic chemical principles applied to environmental and low-temperature geochemistry Explanation and analysis of the importance of minerals in the environment Principles of aqueous geochemistry Organic compounds in the environment The role of microbes in processes such as biomineralization, elemental speciation and reduction-oxidation reactions Thorough coverage of the fundamentals of important geochemical cycles (C, N, P, S) Atmospheric chemistry Soil geochemistry The roles of stable isotopes in environmental analysis Radioactive and radiogenic isotopes as environmental tracers and environmental contaminants Principles and examples of instrumental analysis in environmental geochemistry The text concludes with a case study of surface water and groundwater contamination that includes interactions and reactions of naturally-derived inorganic substances and introduced organic...



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