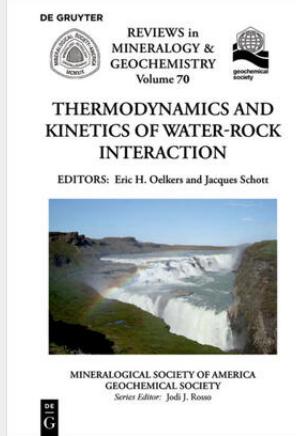


Thermodynamics and Kinetics of Water-Rock Interaction

Volume 70 of Reviews in Mineralogy and Geochemistry represents an extensive review of the material presented by the invited speakers at a short course on Thermodynamics and Kinetics of Water-Rock Interaction held prior to the 19th annual V. M. Goldschmidt Conference in Davos, Switzerland (June 19-21, 2009). Contents: Thermodynamic Databases for Water-Rock Interaction Thermodynamics of Solid Solution-Aqueous Solution Systems Mineral Replacement Reactions Thermodynamic Concepts in Modeling Sorption at the Mineral-Water Interface Surface Complexation Modeling: Mineral Fluid Equilibria at the Molecular Scale The Link Between Mineral Dissolution/Precipitation Kinetics and Solution Chemistry Organics in Water-Rock Interactions Mineral Precipitation Kinetics Towards an Integrated Model of Weathering, Climate, and Biospheric Processes Approaches to Modeling Weathered Regolith Fluid-Rock Interaction: A Reactive Transport Approach Geochemical Modeling of Reaction Paths and Geochemical Reaction Networks

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