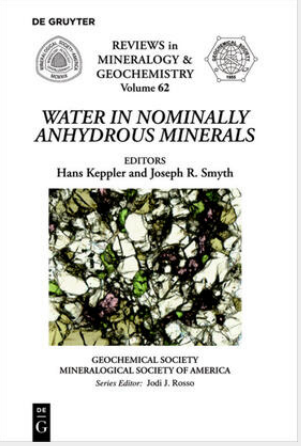
Smyth / Keppler

Water in Nominally Anhydrous Minerals

Volume 62 of Reviews in Mineralogy and Geochemistry reviews the recent research in the geochemistry and mineral physics of hydrogen in the principal mineral phases of the Earth's crust and mantle. Contents: Analytical Methods for Measuring Water in Nominally Anhydrous Minerals The Structure of Hydrous Species in Nominally Anhydrous Minerals: Information from Polarized IR Spectroscopy Structural Studies of OH in Nominally Anhydrous Minerals Using NMR Atomistic Models of OH Defects in Nominally Anhydrous Minerals Hydrogen in High Pressure Silicate and Oxide Mineral Structures Water in Nominally Anhydrous Crustal Minerals: Speciation, Concentration, and Geologic Significance Water in Natural Mantle Minerals I: Pyroxenes Water in Natural Mantle Minerals II: Olivine, Garnet and Accessory Minerals Thermodynamics of Water Solubility and Partitioning The Partitioning of Water Between Nominally Anhydrous Minerals and Silicate Melts The Stability of Hydrous Mantle Phases Hydrous Phases and Water Transport in the Subducting Slab Diffusion of Hydrogen in Minerals Effect of Water on the Equation of State of Nominally Anhydrous Minerals Remote Sensing of Hydrogen in Earth's Mantle



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