



A Theoretical Analysis of Interstitial Hydrogen: Entropy, Enthalpy, Chemical Potential and Pressure-Composition-Temperature (Paperback)

By Peter Omondi Orondo Phd

Createspace Independent Publishing Platform, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The book presents a first principles analysis of the physics and thermodynamics of interstitial hydrogen in metal. By utilizing recent advances in Density Functional Theory (DFT) to get state energies of the metal-hydrogen system, it is shown that the absorption process can be modeled accurately. A connection to experiment is made via Pressure-Composition-Temperature (PCT) isotherms, and thermodynamic molar quantities.

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