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Sommario/riassunto	As inorganic materials are put to more and more practical uses - mainly in electric, magnetic, and optical devices - materials scientists must have an increasingly sophisticated understanding of the chemical and physical properties of inorganic compounds. This volume - the first of its kind in 20 years - provides a unified presentation of the chemistry of non-stoichiometric compounds based on statistical thermodynamics and structural inorganic chemistry. Four modern examples of non-stoichiometric compounds - ionic conducting compounds, hydrogen absorbing alloys, magnetic materials, and electrical materials - are discussed in detail. Students and researchers in structural inorganic chemistry, crystallography, materials science, and solid state physics will find this much-needed text both practical and informative.