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Sommario/riassunto	Boron is a chemical element with three valence electrons for forming covalent bonds, resulting in many compounds. Doping/integration of boron atoms into other atoms provides new wonder materials with unique physical, chemical, and electrical properties. This book provides an overview of the research and developments of boron-based materials such as boron nitride, boron clusters, boron doping, boron compounds, and so on. Chapters cover all aspects of boron-based materials including theoretical backgrounds of structure and properties, computer simulation, synthesis techniques, device fabrication, characterizations, and current state-of-the-art applications.