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Titolo	Layeredness in Materials : Characteristics, Strategies and Applications / / by Abdul Majid, Alia Jabeen
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Nota di contenuto	Chapter-1: Characteristics, Strategies and Applications of Layered Materials: An Introduction -- Chapter-2: Synthesis and Properties of Layered Materials -- Chapter-3: Theoretical Modelling and Approaches to study the Layered Materials -- Chapter-4: The Elemental Layered Solids: Group-IV and V materials -- Chapter-5: Transition Metal Dichalcogenides- An Important Class of Layered Materials -- Chapter-6 Conclusive Remarks and Recommendations: Way forward on Layered Materials.
Sommario/riassunto	This book provides information on the characteristics, strategies and applications of layered materials. It sheds light on layerdness-dependent properties of Van der Waals solids for potential applications. The properties of various layered materials prepared using different experimental strategies are described. Further, the first-principles calculations are given to devise a strategy to investigate layeredness in materials. The structural, thermal, mechanical, lattice vibronic, electronic, optical and carrier transport characteristics of the layered materials are elaborated in detail. This book provides an updated

source of information on layered materials for students, researchers,
and professionals.
