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Sommario/riassunto

This book provides a comprehensive overview of the phase engineering and applications of two-dimensional transition metal dichalcogenides (2D-TMDs) in electronics. Edited by Chi Sin Tang, Xinmao Yin, and Andrew T. S. Wee, it explores the unique properties of 2D-TMDs, including their optical, electronic, mechanical, and magnetic characteristics. The text covers the synthesis, phase engineering, and electronic properties of these materials, as well as their applications in areas such as transistors and nanoscale charge channels. It serves as a valuable reference for physicists, chemists, engineers, and technologists interested in the rapid scientific and technological advancements in polymorphic 2D-TMDs, aiming to motivate further research and development in this field.