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Sommario/riassunto

This book offers a comprehensive exploration of MXenes, a class of two-dimensional materials composed of transition metal carbides, nitrides, or carbonitrides. The book is edited by experts from various esteemed institutions and includes contributions from numerous researchers worldwide. It covers the fundamental properties, synthesis methods, and potential applications of MXenes in multiple fields, such as energy storage, biomedicine, environmental science, and electronics. The book is designed for researchers, scientists, and professionals in material science and related disciplines, aiming to advance their understanding of the unique characteristics and technological potentials of MXenes. It serves as a valuable reference for both academic study and practical application development.