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Sommario/riassunto

The book 'Transition Metal Carbides and Nitrides (MXenes) Handbook' provides a comprehensive overview of the emerging class of materials known as MXenes. Edited by Chuanfang Zhang and Michael Naguib, it delves into the synthesis, processing, properties, and diverse applications of MXenes. The handbook is structured in a manner that guides researchers through the intricacies of MXene synthesis, including precursor preparation and etching methods, while also addressing the thermal and chemical stability of these materials. It is aimed at materials scientists and engineers, offering insights into the potential of MXenes in various technological applications. The book also discusses the degradation mechanisms, handling, and storage strategies for MXenes, making it a valuable resource for advancing research in the field.