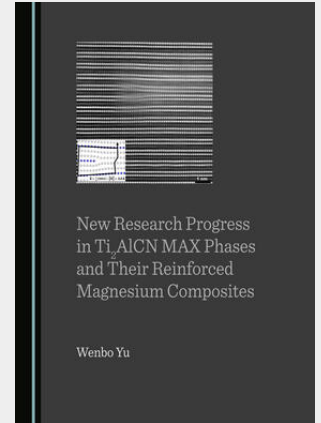


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New Research Progress in Ti₂AlCN MAX Phases and Their Reinforced Magnesium Composites

Providing an up-to-date discussion of advanced ternary MAX ceramics, including their synthesis, mechanical and electrical transport properties, oxidation behavior and their reinforcement in Mg composites, this book introduces students and engineers to the key research topics in the field. By explaining structural materials in a clear and detailed way, it explores Ti₂AlC_xN_y MAX ceramics, from their fundamental investigation to their industrial application. This book also details the synthesis of Ti₂AlC_xN_y, the solid solution and vacancy effects on the mechanical and electrical transport properties of Ti₂AlC_xN_y, the oxidation and welding behavior of Ti₂AlC, and the mechanical and physical properties of Ti₂AlC reinforced Mg composites.



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