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Preceramic Polymer Infiltrated Wood; Rheological Behavior; Modeling the Dynamic Rheological Behavior of AGAR-Based Aqueous Binders Mechanical AlloyingEffects of Alloying with Nb, Re, and AI on Yield Strength of MoSi2; Reaction Forming; In situ Synthesis of Nonoxide-Boron Nitride (NOBN) Composites; Fabrication of Lightweight Oxide/Intermetallic Composites at 1000°C by the Displacive Compensation of Porosity (DCP) Method; Microstructure and Mechanical Properties of SiAION Ceramics with Porous Structure; Functionally Graded Materials & Coatings; Functionally Graded Porosity in Ceramics-Analysis with High Resolution Computed Tomography; Novel Processing for Combined Coatings with Dry Lubrication Ability Ceramic Coatings on Fiber Woven Fabrics for Lightweight Ballistic ProtectionLaminated Object Manufacturing; The Effect of Sheetstock on the Layered Manufacturing of a Telescoping Ceramic Actuator; Electronic and Magnetic Materials; Binder Removal by Supercritical Extraction from BaTiO3-Pt Multilayer Ceramic Capacitors; Processing and Characterization of PZT and PLZT Thick Films; Micromachining of PZT-Based MEMS; Templated Grain Growth of Lead Metaniobate Ceramics by Solid Freeform Fabrication; Investigation of Ni-Cu-Zn Ferrite with High Performance Derived from Nanoferrite Powders; Index

Sommario/riassunto

The most recent advancements in the areas of ceramic/composite processing and characterization are presented in this new volume. Selected topics include sol-gel processing, microwave sintering, reaction forming/bonding, polymer precursors, rapid prototyping, mechanical alloying, diamond and diamond-like structures, and functionally graded materials.