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Composites; Fracture Behavior of Sic Whisker Reinforced A1203 with Modified Interfaces; Effects of SIC Whisker Treatments on the Performance of SIC Whisker/Alumba Matrix Composites; Property Optimization of A1203 Double Reinforced with ZrO₂ and SiC Whiskers Boron Carbide Whisker and Platelet Reinforced Ceramic Carbide Matrix Composites Fabrication of Sic Whisker Reinforced Sic Ceramics; Indentation Fracture of Silicon Carbide Whisker Reinforced Silicon Nitride Ceramic Matrix Composites; Whisker Growth and Composite Fabrication in the Si₃N₄-C System; Microstructure, Strength, and Toughness of Si₃N₄/SiC Whisker Composites; Composite Properties; Synthesis, Characterization, and Tensile Strength of CVI C/SiC, SiC/BiC, SiC/B₄C, and C/B₄C Composites Effect of Test Temperature, Oxygen Attack, Thermal Transients, and Protective Coatings on Tensile Strength of Silicon Carbide Matrix Composites Strength of Nicalon Fiber Reinforced Glass-Ceramic Matrix Composites After Corrosion with NQO, Deposits; Mechanical Characterization of Unidirectional Carbon/Carbon Composites for Engine Valve Application; Fiber-Reinforced Al,Ti Composites; Mechanical Properties of Layered and Laminated Ceramic Matrix Composite Systems.; Effect of Sustained High-Temperature Exposure on the Mechanical Properties of Nicalon/3 Composites Covalent Ceramics and Diamond Films Covalent Ceramic Materials as Thin Films and Coatings; Oxidation Kinetics of CVD Silicon Carbide and Silicon Nitride; New 11-JY-V, Family of Periodic Compounds Synthesized Under High Pressure; Processing-Structure-Property Relationships; Microstructures and Interfaces in A1203-5 wt% Al CMC Synthesized by Plasma Sintering of Attrition-Milled Precursors; EFFECTS OF COMPOSITE PROCESSING ON THE PERFORMANCE OF CARBON Fiber/Glass Matrix Composites; Tape Cast A1203/2r02 Composite Laminates Microcracking and Elastic Moduli Reductions in Unidirectional Nicalon-CAS Composites Under cyclic Fatigue Loading

Sommario/riassunto

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.
