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Ceramics; Dependence of Composite Properties Upon Statistical Variations in Fiber Length; The Fracture Toughening Mechanism of Ceramic Composites Containing Adherent Ductile Metal Phases; Determination of the Interface Strength in Glass-Sic Composites via Single Fiber Tensile Testing
A Comparison of Creep Rupture Behavior in Tension and Bending Strength of Sapphire in Tension as Measured by Flat Plate Pressure Loading to Burst Tests; Evaluation of Strut Strength in Open Cell Ceramics; Role of Interfaces in Composites; Interfacial Chemistry-Structure and Fracture of Ceramic Composites; Interface Characterization of Glass Matrix/Nicalon Si c Fiber Composites: A Thermodynamic Approach; Evaluation of Interfacial Properties in Borosilicate-Sic Composites Using Pullout Tests; Effects of Interfacial Films on Thermal Stresses in Whisker Reinforced Ceramics
Role of Glassy Interfaces in High Temperature Crack Growth in Si c Fiber Reinforced Alumina Interfacial Chemistry of Mullite-Mullite Composites; Mechanical Properties and Microstructural Characterization of SiC-Fiber-Reinforced Cordieritic Glass-Ceramics; Interface Modification in Nicalon/SiC Composites; Polycrystalline Oxide Matrix Composites; Microwave Sintering of Alumina-Silicon Carbide Composites at 2.45 and 60 GHz; Improved Dispersion Technique for Ceramic Whisker- Ceramic Matrix Composites; Pressureless Sintering of Sic Whisker-Reinforced Composites
Properties and Structure of Melt Infiltrated Composites Properties of Fiber-Reinforced Alumina Matrix Composites; Elevated Temperature Crack Growth in Sic Whisker- Reinforced Alumina; Residual Microstrains in Whisker-Reinforced Alumina; Dynamic Fracture Toughness of Ceramic Composites; Deposition Kinetics in Forced Flow/Thermal Gradient CVI; Glass and Glass-Ceramic Matrix Composites; Selection, Fabrication, and Failure Behavior of Sic Monofilament-Reinforced Glass Composites; Gel-Derived Lithium Aluminosilicate Particulate Composites; Geopolymer: Room-Temperature Ceramic Matrix for Composites
Strength of Monolithic and Fiber-Reinforced Glass Ceramics at High Rates of Loading and Elevated Temperatures

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.
