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Nota di contenuto	12th Annual Conference on Composites and Advanced Ceramic Materials; Table of Contents; Plenary Session: Current Programs and Future Trends; Some Considerations for the Evolution of Advanced Ceramics (James I. Mueller Memorial Lecture); New Department of Defense Initiatives in Composite Materials and Structures; Engineering Applications of Composites; Machining with Al ₂ O ₃ -SiC Whisker Cutting Tools; Carbon/Carbon Composite Materials for Aircraft Brakes; Fiber FP/Metal Matrix Composite Connecting Rods: Design, Fabrication and Performance Performance Characteristics of Metal-Ceramic Composites Made by the Squeeze Casting Process SiC Whisker Reinforced Al ₂ O ₃ -ZrO ₂ Composites; Characteristics of High Thermal Performance Insulation, HTP-6-22; Modelling and Theoretical Considerations of Engineering

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
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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.
