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Altri autori (Persone)	BarksR. E (Ronald E.)
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Nota di contenuto	13th Annual Conference on Composites and Advanced Ceramic Materials; Table of Contents; Processing: Non-Oxide Composite Ceramics; Nitriding Kinetics of Si-Sic Powder Mixtures as Simulations of Reaction Bonded SiJ4-SiC Composites; Mechanical Properties of Beta-Silicon Nitride Whisker/Silicon Nitride Matrix Composites; Processing Parameters for Whisker- Reinforced Composites; Processing of Sic Whisker-Reinforced Sid4 Composites; Fabrication and Properties of S i d , Composites Reinforced by SIC Whiskers and Particles Tough Silicon Nitride Matrix Composites Using Textron Silicon Carbide MonofilamentsInfluence of Sic Dispersion on Thermo-Mechanical Properties of SiJV4-SiC Nano-Composites; Sic Whisker-Reinforced Sialon Composites: Effect of Sintering Aid Content; Novel Siliconized Mixed-Phase Ceramics; Sic-MoSi, Composites; Continuous Fiber-Reinforced Titanium Diboride Matrix Composites; Microcrack Toughening in TiB,-AlN Composite; SIC Matrix Composites Reinforced

with Internally-Synthesized TiBz; Composites: Failure Analysis, I;  
Fracture Mechanisms in Ceramic Composites  
Cyclic Fatigue-Crack Propagation Behavior in Advanced Ceramics  
Non-Steady State Cracking in Ceramic Matrix Composites; Creep  
Characterization of Short Fiber-Reinforced Ceramic Composites; First-  
Cracking Strength of Short Fiber-Reinforced Ceramics; Residual  
Stresses and Damage in Unidirectional Model Composites; Speculation  
on the Creep Behavior of Silicon Carbide Whisker-Reinforced Alumina;  
Mechanics of Crack-Tip Damage During Static and Cyclic Crack Growth  
in Ceramic Composites at Elevated Temperatures  
Failure Characteristics of Low Dielectric Constant Ceramic Composites  
Reinforced With BN-Coated Fibers  
Fracture Behavior of SiC-Reinforced  
Ceramic Composites; Thermal Shock Behavior of an SiC Fiber-  
Reinforced Cordierite Composite; Creep Testing of Ceramics;  
Engineering Applications of Composites; Performance of Advanced  
Ceramic Coatings in Simulated High-speed Earth Entry Environments;  
Developments in High Temperature Reusable Surface Insulation  
Coatings; Edge Effects in Porous Cellular Materials; Oxidation Issues in  
C/Oxide Composites  
Ceramic Valve Development for Heavy-Duty Low Heat Rejection Diesel  
Engines  
Composite Wear-Resistant Ceramic Coatings for Advanced  
Diesel Engine Applications; Diamond Toughened Zinc Sulfide Ceramic  
Composites for Infrared Window Materials; Preparation of Zirconia  
Fibers By Sol-Gel Method; Effect of Alumina Composition on Interfacial  
Chemistry and Strength of Direct Bonded Copper-Alumina; Cast  
Joining Between SiC and Aluminum; Ceramic Port Shields Cast in an Iron  
Engine Head; Cryogenic Properties of Aluminum Alloys and  
Composites; Composites: Failure Analysis, I1  
Scatter of Strength in Whisker-Reinforced Ceramics

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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.

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