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with Internally- Synthesized TiBz; Composites: Failure Analysis, I;
Fracture Mechanisms in Ceramic Composites
Cyclic Fatigue-Crack Propagation Behavior in Advanced CeramicsNon-
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 FibersFracture 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
EnginesComposite 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
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Scatter of Strength in Whisker-Reinforced Ceramics

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.
