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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
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 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;
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 Ceramic Coatings in Simulated High-speed Earth Entry Environments;
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 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
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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.
