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Composites; Fracture Behavior of Sic Whisker Reinforced A1203 with Modified Interfaces; Effects of SIC Whisker Treatments on the Performance of SIC Whisker/Alumba Matrix Composites; Property Optimization of A1203 Double Reinforced with ZrO, and SiCWhiskers Boron Carbide Whisker and Platelet Reinforced Ceramic Carbide Matrix CompositesFabrication of Sic Whisker Reinforced Sic Ceramics; Indentation Fracture of Silicon Carbide Whisker Reinforced Silicon Nitride Ceramic Matrix Composites; Whisker Growth and Composite Fabrication in the Si,N4-C System; Microstructure, Strength, and Toughness of Si,N,SiC Whisker Composites; ComDosite Properties; Synthesis, Characterization, and Tensile Strength of CVI C/SiC, SiCBiC, SiC/B4C, and C/B4C Composites
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Covalent Ceramics and Diamond FilmsCovalent Ceramic Materials as Thin Films and Coatings; Oxidation Kinetics of CVD Silicon Carbide and Silicon Nitride; New 11-JY-V, Family of Periodic Compounds Synthesized Under High Pressure; ProcessindStructureProDerty Relationships; Microstructures and Interfaces in A1203-5 wt% Al CMC Synthesized by Plasma Sintering of Attrition-Milled Precursors; EFFECTS OF COMPOSITE PROCESSING ON THE PERFORMANCEOF CARBONFiber/Glass Matrix Composites; Tape Cast A1203/2r02 Composite Laminates
Microcracking and Elastic Moduli Reductions in Unidirectional Nicalon-CAS Composites Under cyclic Fatigue Loading

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.