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Advanced SiC/SiC Ceramic Composites: Developments and Applications in Energy Systems; Contents; Preface; Processing for SiC/SiC Composites; Overview of CREST-ACE Program for SiC/SiC Ceramic Composites and Their Energy System Applications; Processing of SiC/SiC Fibrous Composites According to CVI-Techniques; Research on the High Performance Silicon Carbide Ceramics and Silicon Carbide Based Composites; Optimization and Characterization of Chemical Vapor Infiltrated SiC/SiC Composites
Optimizing the Fabrication Process for Excellent Mechanical Properties in Stoichiometric SiC Fiber/FCVI SiC Matrix Composites
A Novel Processing Technique of Silicon Carbide-Based Ceramic Composites for High Temperature Applications; Facile Fabrication of SiC Matrix Composites Using Novel Pre ceramic Polymers; Process Design for SiC/SiC Composite with Polymeric Precursor; Matrix Filling Behavior of SiC/SiC Composite by Whiskering and the CVI Process; Development of SiC/SiC Composites by the Melt Infiltration Process; Processing for SiC/SiC Composite Constituent
Mechanical, Thermochemical, and Microstructural Characterization of AHPCS-Derived SiC Polysilane-Based Precursors for SiC/SiC Composites; Present Status and Future Trends on the Development and Application of Continuous SiC Fibers; Properties of BN Coating on SiC Fiber by the Continuous CVD Process; SiC Ceramic Fibers Synthesized from Polycarbosilane-Polymethylsilane Polymer Blends; Effect of Residual Silicon Phase on Reaction-Sintered Silicon Carbide; Characterization of Thermomechanical Performance; Development of Test Standards for Continuous Fiber Ceramic Composites in the United States
Effects of Interlayers on Interfacial Shear Strength and Flexural Properties of Tyranno-SA Fiber-Reinforced CVI-SiC/SiC Composites
Flexural Properties of Several SiC Fiber-Reinforced CVI-SiC Matrix Composites; A Finite-Element Analysis of the Thermal Diffusivity/Conductivity of SiC/SiC Composites; Microstructure Evolution in Highly Crystalline SiC Fiber Under Applied Stress Environments; Joining Technologies and Advanced Energy Applications; High Temperature Brazing for SiC and SiCf/SiC Ceramic Matrix Composites; Joining SiC-Based Ceramics and Composites with Pre ceramic Polymers
Modeling of Fracture Strength of SiC/SiC Composite Joints by Using Interface Elements
