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Fabrication of Channel Structures in Ceramics That Were Sintered and Joined by Microwave HeatingSolid Freeform Fabrication; Solid Freeform Fabrication and Design; Extrusion Freeform Fabrication of Functional Ceramic Prototypes; Light Weight Ceramic Composites from Laminated Paper Structures; Solid Freeform Fabrication of Advanced Ceramics; Solid Freeform Fabrication of a Telescoping Actuator via Laminated Object Manufacturing; Solid Freeform Fabrication of Intermetallics and Their Ceramic Composites by Reactive Rapid Prototyping; Design Tools for Multi-Material layered Manufacturing System
Wear Resistant CoatingsThe Influence of Substrate Microstructure on the Crack Formation of CrN Coatings on Brass; Environmentally Benign Ceramic Composite Coatings with Advanced Tribological Properties; Reactive Coating of Sic on Diamond Particles; Determination of Strength of Double-layer Brittle Coatings on Metallic Substrates by Four-Point Bend Test; Interface Debond Coutings: Oxide; Monazite and Scheelite Deformation Mechanisms; Porous Rare-Earth Aluminate Fiber Coatings for Oxide-Oxide Composites
Monazite Coatings on Nextel 720TM, 6 I O"", and Tyranno-SA Fiber Tows: Effect of Precursors on Fiber StrengthMg-Si-Al-0 Coatings on Hi-Nicalon Sic Fiber by Alkoxide Method; Effects of MulliteNSZ Coatings on the Performance of SiC/SiC Composite Combustion liners; Surface Characterization of Plasma Sprayed H yd roxyapati t e Coatings; Interface Debond Coatings: Non-oxide; Effect of Multiple Coating Interfacial Structures on Bending Properties of FCVl SiC(SiC Composites; BN and SiBN Fiber Coatings via CVD Using a Single- Source liquid Precursor Based on Borazine
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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.