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Nota di contenuto	24th Annual Conference on Composites, Advanced Ceramics, Materials, and Structures: B; Contents; Materials Synthesis; ADVANCED SYNTHESIS and PROCESSING; Synthesis of Single Phase (Ba,Sr)TiO <sub>2</sub> by a Reactive Process; Fabrication of CeramicEpoxy Crystals by Stereolithography; Unidirectionally Porous Oxides Prepared Using Eutectic Reactions; Plasma Jet Generation over the Liquid Surface and I t s Application to Diamond Synthesis; Synthesis and Characterization of Fine-Grained 3Y-TZP/Hexaferrite In Situ Composites; Environment Conscious Ceramics (Ecoceramics); Materials Processing Suspension of Sic Powders in Allylhydridopolycarbosilane (AHPCS): Control of RheologyBiostructure Derived Ceramics; Structural Ceramics through Particle-Filled Preceramic Polymers: Suspension and Particle Filtration Characterization; Texture Development in Reaction-Bonded Alumina (RBAO) Ceramics via Templated Grain Growth; Oxidation and Transport Phenomena in the Reaction-Bonded Aluminum Oxide (RBAO) Process; Two-Phase Materials in the Alumina-Yttria System Produced

by Mechanical Alloying; Spark Plasma Sintering of Mullite-Zirconia-TiO<sub>2</sub> Ceramics

Fabrication of Channel Structures in Ceramics That Were Sintered and Joined by Microwave Heating; Solid 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 Coatings; The 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 Coatings: 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 Strength; Mg-Si-Al-O Coatings on Hi-Nicalon Sic Fiber by Alkoxide Method; Effects of Mullite/NSZ Coatings on the Performance of SiC/SiC Composite Combustion liners; Surface Characterization of Plasma Sprayed Hydroxyapatite Coatings; Interface Debond Coatings: Non-oxide; Effect of Multiple Coating Interfacial Structures on Bending Properties of FCVI SiC(SiC Composites); BN and SiBN Fiber Coatings via CVD Using a Single- Source liquid Precursor Based on Borazine  
Silicon Carbide Fibers with Boron Nitride Coatings

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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.

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