

1. Record Nr.	UNINA9911019374703321
Titolo	23rd Annual Conference on Composites, Advanced Ceramics, Materials, and Structures: B : January 25-29, 1999, Cocoa Beach, Florida // Ersan Ustundag, Gary Fischman, editors
Pubbl/distr/stampa	Westerville, OH, : American Ceramic Society, c1999
ISBN	9786612312960 9781282312968 1282312960 9780470294574 0470294574 9780470295038 0470295031
Descrizione fisica	1 online resource (618 p.)
Collana	Ceramic engineering & science proceedings, , 0196-6219 ; ; v. 20, issue 4
Altri autori (Persone)	FischmanGary UstundagErsan
Disciplina	666 666.05
Soggetti	Ceramic materials Composite materials Structural analysis (Engineering)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	23rd Annual Lonterence on Composites, Advanced Ceramics, Materials, and Structures: B; 23rd Annual Conference on Composites,Advanced Ceramics, Materials, and Structures: B; Contents; Preface; DARPA's Low Cost Ceramic Composite (LC3) Program; Characterization of in situ BN Interface Formed by Nitridation of Nextel 312; Simulation of Progressive Damage for High-Temperature Woven Composites; Device Design; Surface Finish and Composition Dependence of Valvetrain Friction with Silicon Nitride Tappet Inserts; Functionally Graded Materials for Gun Barrels; Development of a CMC Thrust Chamber Design and Characterization of a Co-ExtruderScale-Up of APCVD Uniform Ceramic Coating of Tubular Inner Surfaces via Process

Modeling; Joining Techniques for Fiber-Reinforced Ceramic Matrix Composites; Microwave Joining of Al₂O₃-ZrO₂ Composites; Transparent Armor Ceramics: AlON and Spinel; Service Environment Effects; Modeling the Oxidation Kinetics of Continuous Carbon Fibers in a Ceramic Matrix; Mechanisms of low-Temperature Environmental Effects on Transformation-Toughened Zirconia Ceramics
Oxidative Pest Degradation of Hi-Nicalon/BN/SiC Composite as a Function of Temperature and Time in the Burner Rig
Interphase Oxidation in SiC/SiC Composites at Varying Partial Pressures or Oxygen; Effects of Particulate Debris Morphology on the Rolling Wear Behavior of All-Steel and Si₃N₄-Steel Bearing Element Couples; A Comparative Study of the Tensile, Fatigue and Creep Properties of Sintered (SNW- 1000 and GS-44) and HIPed (PY-6) Silicon Nitride Ceramics; Modeling Ceramic Composite Hot Gas Candle Filter Material Using Energy Method

Experimental Study of a Ceramic Hot Gas Candle Filter

Material Environmental Effects of Microstructural Stability in SiC/SiC Composites; Strength of Masonry Mortars under Field Exposure Conditions; Advanced Synthesis and Processing: Materials Behavior Under Extreme Conditions; Fields: Electric/Magnetic/RF; Fields: RF/Gravitational; Research Programs on Material Processing in High Magnetic Fields at Tsukuba Magnet Laboratory (invited); Powder Consolidation Using Dynamic Magnetic Compaction (DMC) Process; Microwave Induced Combustion Synthesis of Ultrafine Barium Hexaferrite Powders

A Comparison of Annealing Treatments of an Oxide Ceramic
Synthesis of Crystalline Materials with High Quality Under Short-time Microgravity (invited); Auto Ignition Synthesis and Microwave Sintering of ZrO₂-CaO; Reactive Synthesis of Dense FGMS in the Ti-B Binary System; Flight-and Ground-Based Materials Science Programs at NASA; Zero Gravity Sol-Gel Glass-Metal Composite Production; Temperature: High Flux, High Rates; Thermal Shock Behavior of Single Crystal Oxide Refractive Concentrators for High-Temperature Solar Thermal Propulsion; Inviscid Melt Spinning of Mullite Fibers

Growth and Diameter Control of Al₂O₃/Y₃Al₅O₁₂ Eutectic Fiber by Micro-Pulling-Down Method and Its High-Temperature Strength and Thermal Stability

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.
