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Altri autori (Persone)	JessenTodd <1960-> UstundagErsan
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Nota di contenuto	24th Annual Conference on Composites, Advanced Ceramics, Materials, and Structures:A; Contents; Preface; COMMERCIALIZATION; Future Opportunities and Critical Needs for Advanced Ceramics and Ceramic Matrix Composites in Aerospace Applications; Current Status and Future Prospects of CMC Brake Components and Their Manufacturing Technologies; Fabrication of Structural Ceramic Parts Using Mold SDM; Analysis of Thermal Power Plant Ashes and Their Reaction with Ceramic Filters; Advanced Hot Gas Filter Development; The Effects of Thermal Shock on the Mechanical Properties of a Hot Gas Candle Filter Refractory Performance in a High-Temperature Advanced Furnace for Power GenerationPayback for Diamond Film-Coated Blades; PERFORMANCE PREDICTION; Material Choracterizcrtion Techniques;

Multiaxial Strength Testing of Brittle Single Crystals; Preloading
 Technique as a Tool to Identify Failure Mechanisms in Constant Stress-
 Rate Testing of Advanced Ceramics at Elevated Temperatures; Overall
 Properties of Ceramics Subjected to Compressive Loading; High-speed
 Circular Microhole Milling Method for the Determination of Residual
 Stresses in Coatings and Composites
 Dimensional Analysis of Ceramic Rotors by Using X-ray Computed
 Tomography (XCT) Crystallography of Alumina-YAG Eutectic; A Model
 for Residual Stress Evolution in Air-Plasma Sprayed Zirconia Thermal
 Barrier Coatings; Stress and Nanostructure-Imaging of Ceramic Fibers
 and Abradable Thermal Barrier Coatings by Raman Microspectrometry-
 State of the Art and Perspectives; Elastic Modulus Determination of
 Fibrous Monolith Ceramics; Contact-Free Ultrasound: The Final Frontier
 in Non-Destructive Materials Characterization; Thermal Fracture Stress
 Evaluation of Silicon Nitride by a Laser Up-Shock Method
 Thermal Imaging Measurement of Lateral Thermal Diffusivity in
 Continuous Fiber Ceramic Composites Determination of Thermal
 Conductivity of Single Crystal Oxides Using a Steady-State Laser Heat
 Flux Approach; Behavior Modeling and Life Prediction; New FEM
 Analysis of Time-Dependent Crack Growth in SiC/SiC Composites;
 Analyzing the Failure Behavior of Thermal Barrier Coatings Using the
 Finite Element Method; Simulation of Microcrack Propagation Behavior
 in Polycrystalline Alumina Having Initial Residual Stress Field
 Modeling the Environmental Effects on Carbon Fibers in a Ceramic
 Matrix at Oxidizing Conditions An Overview of Mechanical Property
 Literature with a Statistics Perspective; Life Prediction of Ceramic
 Composite Materials: The Influence of Sequence Effects; Interaction of
 Nuclear Waste Glass with Underground Water in Granite Repository;
 First-Principle Study of the Tensile Strength and Fracture of SiC Grain
 Boundaries; Machining Damage and Slow Crack Growth/Reliability
 Analysis of Glass Specimens
 Application of Design of Experiments to Extrusion Freeform Fabrication
 (EFF) of Functional Ceramic Prototypes

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.