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Nota di contenuto	22nd Annual Conference on Composites, Advanced Leramics, Materials, and Structures: B; Table of Contents; Preface; CVD-SiC Manufacturing Process Reproducibility; Environmental Effects; The Effect of High-Temperature Soaking on the Microstructure and Properties of a Sintered Silicon Nitride; Environmentally Induced Time-Dependent Failure Mechanisms in CFCCs at Elevated Temperatures; Hligh-Temperature Oxidation and Corrosion of a Porous Si2-N2O-ZrO2 Composite Material; Low-Damage, High-Productivity Abrasive Grinding of Advanced Ceramics Effect of Crystallizaton on Creep of Clay Bonded Sic FiltersWear Performance of Monolithic and Composite Mixing Tubes for Abrasive Water Jet Cutting of Ceramics; Reliability and Life Prediction; Reliability Modeling of Brittle,Anisotropic Materials; A Strain-Based Methodology for High-Temperature lifetime Prediction; Investigations of the Weibull Modulus as a Function of Stressing Rate; Exploration of the Weibull

Modulus as a Function of Surface Preparation and Flexure Testing  
 Conditions; Lifetime Prediction for Ceramic Components Subjected to  
 Time-Dependent Loading  
 Prediction of the Load-Bearing Capabilities Based on the First Matrix-  
 Cracking Criterion for Plain-Weave Multilayered Nicalon/SiC  
 Composites with Lay-Ups of [0/20/60] and [0/40/60] Life Prediction  
 Tool for Ceramic Matrix Composites at Elevated Temperatures;  
 Experimental Study and Modeling of a Novel Ceramic Composite Hot  
 Gas Candle Filter Material; Theoretical Modeling; Bridging Behavior at  
 Creep Regime; Oxygen Diffusion and Reaction Kinetics in Continuous  
 Fiber Ceramic Matrix Composites; Prediction of Tension Failure of  
 Textile Composites Using Micromechanics and Statistical Analysis  
 The Effects of Load, Grain Size, and Grain Boundaries on the Hardness  
 of Alumina Computational Analysis of Residual Stress in Ceramics  
 Having Heterogeneous Microstructure; Finite Element Modeling of  
 Thermal Residual Stress in Tungsten-Tungsten-Carbide Composites;  
 Finite Element Analysis of the Stress Distribution in Silicon Nitride  
 Bearing Balls; Finite Element Analysis of Crack Wake Traction in  
 Chevron-Notched Bend Bar; Analysis of the Bridging Zone Contribution  
 to the R-Curve Behavior of SiC-Platelet-Reinforced Alumina Using the  
 Chevron-Notched Bend Bar Specimen  
 Structural Analysis and Component Design Fabrication of NZP Ceramic-  
 Metal Composite Diesel Engine Exhaust Port Liners Using Finite Element  
 Analysis as a Guiding Tool; Finite Element Modelling and Analysis of a  
 Ceramic Matrix Composite Combustor; Joint Integrity Issues in a Novel  
 Piezoceramic Actuator Design; Manufacturing of Ceramic Matrix  
 Composite Rotor for Advanced Gas-Generator; Design and Analysis of a  
 CMC Turbine Blade Tip Seal for a Land-Based Power Turbine;  
 Degradation of SiC/B<sub>4</sub>C/SiC Composites in the Burner Rig; Rudimentary  
 CFCMC Design and Mechanical Behavior Prediction  
 Alumina Single-Crystal Fiber Reinforced Alumina Matrix for Combustor  
 Tiles

#### 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,  
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