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Nota di contenuto	27th International Cocoa Beach Conference on Advanced Ceramics and Composites: B; Contents; Ceramic Machinability . What Does It Mean?; Preface; Functional Ceramics; Compositional Studies and Electrical Properties of the lead-Based Relaxor Solid Solutions; Crystallographic Study on Rare-Earth Doped BaTi0,-Shell Phase for MLCC Application; Characterization of Sol-gel (Bi3.,5Nd,,85)Ti30,2 Thin Films; Mechanical Failure and Mechanical Design of Electroceramic Components; The Formation Mechanism for Dendritic Phase(s)in BaTiO, Ceramics low Temperature Sintering Of Pb(Zr,Ti)O, Materials for Actuator ApplicationsRamanlRayleigh Study of Nanophases; Growth of LaNiO, Films by Pulsed laser Deposition; Capacitor Applications of C-Axis Oriented Bismuth layer Structured Ferroelectric Thin Films; A New High Resolution Process for Passives in Hybrid Packaging; Crystal Structure and Microwave Dielectric Properties of Ba,La4Ti3+,0 Homologous Compounds with High Dielectric Constant and High Quality Factor; Effect of Niobium-Doping and Grain Size on the Dielectric Properties of

lead Barium Zirconate Titanate Relaxors

Dissolution of Zr and Y into BaTiO, by MillingCharacterizations of Sol-Gel(Bi,., Nd,)Ti,O, Thin Films; Ultrasensitive Gas Sensor Using Co,O, Modified SnO,; Antimony Oxide Based Gas Sensors; Oxide Ceramics and Composites; Translucent Polycrystalline Ceramic Compacts from Doped Alumina-Sintering Behavior and Microstructure Development; Mechanical and Electrical Properties of AI,O, Thin Films on Metals, Ceramics and Resins Prepared by Aerosol Deposition Method; Processing of In Situ Reinforced Alumina Composites
Room- and High-Temperature Tensile Fracture of Directionally Solidified Chromia-Doped Sapphire FibersHigh Temperature Phase Equilibria in the Cu,O-Ga0,-ln,O, System; Corresponding States Principles for the Thermal Expansion of MgO, CaO, SrO and BaO; High Pressure Characterization of luminescence Centers in Oxides; The Effect of a High Strength Electric Field on the Low Temperature Degradation of a Y-TZP Ceramic; Improved Preparation of Transparent P U T Ceramics by Electrophoretic Deposition and Hot Isostatic Pressing; Reaction Synthesis of Refractory Metal-Ceramic Composites Ni and Co-ZrO, Composites Produced by Laser Zone MeltingWEAK POROUS INTERFACE IN CERAMIC LAYERED SYSTEMS; Metallic and Dielectrical Coatings on Glass Ceramic -Characterization and Modeling of Residual Stresses; Measurement of Delamination Size and Depth in Ceramic Matrix Composites Using Pulsed Thermal Imaging; Flexural and Torsional Resonances of Ceramic Tiles via Impulse Excitation of Vibration; Fibers, Fiber Coatings and Fiber Reinforced Ceramic Composites; Recent Progress of Hi-Nicalon Type S Development; Mechanical Properties of Carbon and BN Coated Sic Fibers
Alternative lnterphase Coatings for Improved Durability in SiCISiC Composites

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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