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Dissolution of Zr and Y into BaTiO_x by MillingCharacterizations of Sol-Gel(Bi₂O₃, Nd₂O₃)Ti₂O₅ Thin Films; Ultrasensitive Gas Sensor Using Co₃O₄, Modified SnO₂; 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 Al₂O₃ 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 Cu₂O-Ga₂O₃-In₂O₃ 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-ZrO₂, 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 Interphase Coatings for Improved Durability in SiC/SiC 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.
