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CaZrO₃ Humidity Sensors; Effect of Organic Components of Low Friction/Flexible Materials; Ceramic light Metal Composites-Product Development and Industrial Application; CMC Brake Disks in Serial Production-the Competition Between Cost Effectiveness and Technical Performance; Ceramic on Glass and Glass-Ceramic Layer Composites for Industrial Applications

The Commercialization of Advanced Telecommunications Technologies in Georgia through YamacvawFabrication of Ceramics with Designed Porosity; Effect of Microstructure on the Mechanical Properties of DenselPorous Multilayered Silicon Nitride; Comparison among the Functional Forms Describing Changes in Thermal and Mechanical Properties due t o Microcracking and Porosity; Manufacturing of Porous Oxide Ceramics from Bioorganic Preforms; Grain Boundary Strengthening of Porous Alumina Ceramics: Effect of Secondary Inclusions and Dopants

Hermetic Glass Bodies with Controlled Porosity: Processing and PropertiesSelf-Foamed Cellular Ceramics from Silicone Resins with a Zeolite Surface; Wood Derived Porous and Cellular Ceramics; Porous Sic Ceramics with Oriented Structure from Natural Materials; Design of Screen-Printed Porous Layers for Improving Gas Sensor Performances; Designing and Fabricating Pores in Porous Materials; Effect of Porosity on Thermal Shock Resistance of Silicon Nitride Ceramics; Binder Induced Porosity in Tape Casting

Potential of Acousto-Ultrasound Method t o Characterize the Strength of Hot Gas Filter MaterialsEffect of Combustion Conditions on Properties of Ceramic Hot Gas Filters; Determination of Pore Volume and Pore Distribution by Liquid Extrusion Porosimetry without Using Mercury; Cellular Oxide Ceramics from Filler Loaded Silicone Resins; Unique Applications of Diamond and Diamond-Like Carbon for Use as Tools or Components; Ceramic Tribo-Coatings in Japan-A Report on State-of-the-Art Materials; Characterization of Aluminum Phosphate Sealed Alumina and Chromia Coatings
Reaction Bonding of Oxide Coatings on Silicon Nitride

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.
