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Fibers through Sol-Gel Processing; Current Topics in the Field of Materials Technology of BME-MLCCs; Formation of Titanium Dioxide Micropattern by Direct Synthesis from Aqueous Solution and Transcription of Resist Pattern; Study of Surface Donor-Acceptor Active Centers Distributions during Ceramics Ball Milling
Modeling of Nonlinear Phenomena during Deformation of Interparticle Necks by Diffusion-Controlled CreepManufacture and Characterization of Low-Temperature Sintered CO2Z Ceramics; Fabrication and Cofiring Behaviors of Low-Sintering Monolithic Piezoelectric Transformers; Functionally Gradient Relaxor Dielectric Composites with X7R Characteristics; Dielectric, Piezoelectric, and Ferroelectric Properties of PMN-PNN-PZT Quaternary System; Optimization of Ferrite Powder Processing by Characterization of Slurry Properties; Manufacturing of Advanced Dielectric Coatings by Thermal Spraying
Electrical Properties of Barium Titanate Thick FilmsMicrowave Dielectric Properties of Al2O3-MgO-REOx (RE: Rare Earth) Systems and their Application to New LTCC; An Ultrasonic Motor for Catheter Applications; Grain Size Dependence of High-Power Piezoelectric Characteristics in a Soft PZT; High Power Piezoelectrics of (l-x)Pb (Zn1/3Nb2/3)O3-xPbTiO3 Single Crystals; Residual Stress in High-Capacitance BME-MLCCS; Processing of Pb-Ba-Zr-Ti-Based Dielectrics for High-Power Capacitor Applications; Additive Interactions in Aqueous BaTiO3 Suspension
Aqueous Tape Casting of Surface-Modified Cordierite Glass-Ceramics PowdersEmbedding a Passive Material Layer in Low-Temperature Cofired Packing; Recent Topics in Ferrite Materials for Multilayer Chip Components; Lead-Free Multilayer Dielectric System for Telecommunications; Microwave Dielectric Characterization of Ferroelectric Ceramics with Sleeve Resonator Techniques; Field Dependence of the Dielectric Properties of Barium Strontium Titanate Single Crystals; Electric Field Dependence of Dielectric Behavior of (Sr1-xPbx)TiO3
Lattice Dynamics and Dielectric Properties of Ferroelectric Thin Films for Frequency Agile Devices

Sommario/riassunto

With information on the subject of dielectric materials, this volume brings important updates to electronic device engineers and researchers in the area of ferroelectric materials. Topics include materials, processes, properties, and electronic devices based on these materials and systems.