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Nota di contenuto	Recent Developments in Electronic Materials and Devices; Contents; Poisson's Ratios in High-Coupling Ferroelectric Ceramics; Determination of Binder Decomposition Kinetics for PVB-BaTiO3-Pt Multilayer Ceramic Capacitors; Characterization of the Sol-Gel-Derived PZT Thick Films on Metal Substrates; A Study on Hot-Pressed 0.3PZN-0.7PZT Piezoelectric Ceramics; Rare-Earth Metal Doping Effects on the Piezoelectric Properties of Pb(Zr,Ti)O3-Pb(Mn,Sb)O3 Ceramics; Studies on Dielectric Behavior of Ni0.8Zn0.2 Fe2O4 Processed through Novel Techniques High Breakdown Strength and High Dielectric Constant Capacitors in the Strontium Zirconate and Strontium Titanate Solid Solution SystemPreparation and Characterization of Sr0.5Ba0.5Nb2O6 Ceramic 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 Creep Manufacture 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 Films Microwave Dielectric Properties of Al₂O₃-MgO-REO_x (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 (1-x)Pb (Zn^{1/3}Nb^{2/3})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 Powders Embedding 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 (Sr_{1-x}Pb_x)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.