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Altri autori (Persone)	NairK. M <1933-> (K. Manikantan)
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Nota di contenuto	Advances in Dielectric Materials and Electronic Devices; Contents; Preface; Material Design and Synthesis; Molecular Designing of Fine Particles Using Aerosol Synthesis; Size Effect of Dielectric Properties for Barium Titanate Particles and its Model Using Two Factors; Embedded Ceramic Passive on FR-4 Using Aerosol Deposition; Novel Routes to Ferroelectric Gadolinium Molybdenum Oxides; Preparation of High Dispersion TiO2 Powders by Chlorideprocess to Synthesize Ultra Fine Dielectric Powders; Two-Phase Ceramic Dielectrics Deposition and Single-Step Processing of YBCO Thick Films for Multilayered ElectronicsLaser Transferred Sol-Gel PZT Thin Films;

Synthesis and Characterization of C-N Thin Films Deposited on Si (100) Wafer by MPCVD; Novel Dielectric Crystals: Ternary Selenides; Aerosol Deposition for Fabrication of High Speed Opticalmicro-Scanner; Processing and Properties; The Effect of Processing, Tantalum-Replacement, and Lanthanum-Doping on the Dielectric Properties of Lead Magnesium Niobate-Lead Titanate Ceramics; Dielectric and Magnetolectric Properties of 1-X NBT - X BF Solid Solutions The PTCR Effect of Donor-Doped Barium Titanate: Origin of the Surface States at the Grain-BoundaryLead-Free Piezoelectric Ceramic Based on (Bi_{1/2}Na_{1/2})Ti₃-(Bi_{1/2}K_{1/2})TiO₃-BaTiO₃ Solid Solution; Large Spontaneous Polarizaion in Suprelattice-Structured Bismuth Layerd Ferroelectric Crystals; Impact of SrRuO₃/LaNiO₃ Doubly-Stacked Bottom Electrode on the Characteristics of c-Axis-Oriented CaBi₄Ti₄O₁₅ Films; Complex Permittivity of Calcium Copper Titanate Ceramics with a Bimodal Grain Size Distribution; Dielectric and Pyroelectric Behavior of (Ba_{1-x}Sr_x)TiO₃ Composites with Oxide Additives Effect of Porosity on the Electrical Properties of Y₂O₃-SrTiO₃ Internal Boundary Layer CapacitorsIsotropic Optical Properties of Epitaxial PLZT Thin Films; Characterization and Application of Pb[(Zn_{1/3}Nb_{2/3})_{0.91}Ti_{0.09}]O₃ Single Crystal with Giant Electromechanical Coupling Factor k₃₁; Dielectric Properties and Phase Transition In Sb/Mn and La/Mn Codoped BaTiO₃ Ceramics; Processing and Properties of Inorganic/Organic Dielectric Nanocomposites; Sintering Behavior of Ni-Cu-Zn Ferrites for Multilayer Inductors Process Variables, Dielectric Properties, and Microstructures of Multilayer Ceramic Capacitors with Ni Internal ElectrodesApplications; High Performance Barium Strontium Titanate Thin Film Capacitors for Decoupling Applications; Wettability Considerations for Sub-Micron Base Metal Electrodes in BaTiO₃ Multilayer Capacitors; Internal Stress and Capacitance Aging of BME-MLCCS; Piezoceramic Thin-Film Multilayer Resonators on Crystalline Dielectric Substrates High Performance Thin Films for Microwave Phase Shifter Applications: Device Requirements, Material Design, and Process Science Considerations

Sommario/riassunto

This proceedings contains papers presented at the Advanced Dielectric Materials: Design, Preparation, Processing and Applications; and Advanced Dielectrics for Wireless Communications symposia. Topics include design of material, materials synthesis and processing, processing-microstructure-property relationship, multilayer device materials, thin and thick films, device applications, low temperature co-fired ceramics (LTCC)for multilayer devices, microwave dielectric materials and much more.
