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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  $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{Ti}_3(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3\text{-BaTiO}_3$  Solid Solution; Large Spontaneous Polarizaion in Suprelattice-Structured Bismuth Layerd Ferroelectric Crystals; Impact of  $\text{SrRuO}_3/\text{LaNiO}_3$  Doubly-Stacked Bottom Electrode on the Characteristics of c-Axis-Oriented  $\text{CaBi}_4\text{Ti}_4\text{O}_{15}$  Films; Complex Permittivity of Calcium Copper Titanate Ceramics with a Bimodal Grain Size Distribution; Dielectric and Pyroelectric Behavior of  $(\text{Ba}_{1-x}\text{Sr}_x)\text{TiO}_3$  Composites with Oxide Additives Effect of Porosity on the Electrical Properties of  $\text{Y}_2\text{O}_3\text{-SrTiO}_3$  Internal Boundary Layer CapacitorsIsotropic Optical Properties of Epitaxial PLZT Thin Films; Characterization and Application of  $\text{Pb}[(\text{Zn}_{1/3}\text{Nb}_{2/3})_{0.91}\text{Ti}_{0.09}]_3\text{O}_3$  Single Crystal with Giant Electromechanical Coupling Factor  $k_{31}$ ; Dielectric Properties and Phase Transition In Sb/Mn and La/Mn Codoped  $\text{BaTiO}_3$  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  $\text{BaTiO}_3$  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

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### 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.

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