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Microwave Frequency Applications; Analytic Methods for Determination of Activation Energy Using the Master Sintering Curve Approach; Surface Analysis of Nano-Structured Carbon Nitride Films for Microsensors; Gas Permeability in Nanoporous Substrates; PROPERTIES AND APPLICATIONS

Texturing of PMN-PT Ceramics via Templated Grain Growth (TGG): Issues and Perspectives; Electrical Characterization and Dielectric Relaxation of Au/Porous Silicon Contacts; Structural and Dielectric Properties of the $\text{Na}_0.5\text{Bi}_{0.5}\text{TiO}_3\text{-NaTaO}_3$ Ceramic System; Piezoelectric Behavior of the Blended Systems (NYLON 6/NYLON 11); Dielectric Properties of BaTiO_3 Doped with Er_2O_3 , Yb_2O_3 Based on Intergranular Contacts Model; Dielectric Properties of $\text{ACu}_3\text{Ti}_4\text{O}_{12}$ -type Perovskites; Dielectric Properties of Rare Earth Doped Sr-M Hexaferrites; High Temperature Piezoelectric Properties of Some Bismuth Layer-Structured Ferroelectric Ceramics; Effective Size of Vacancies in the $\text{Sr}_{1-3x/2}\text{Ce}_x\text{TiO}_3$ Superstructure; Effect of Dopants and Processing on the Microstructure and Dielectric Properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ (CCTO); Author Index

Sommario/riassunto

This compilation is a useful one-stop resource for understanding the most important issues in advances in electroceramic materials, covering topics such as design, synthesis, characterization, and properties and applications. This volume contains a collection of papers from the Advanced Dielectric Materials and Electronic Devices and Electroceramics Technologies symposia held during MS&T 08.
