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Thermoelectric Materials; Preparation of Low-Loss Titanium Dioxide for 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 PerspectivesElectrical Characterization and Dielectric Relaxation of Au/Porous Silicon Contacts; Structural and Dielectric Properties of the Naa5Bia5TiO3-NaTaO3 Ceramic System; Piezoelectric Behavior of the Blended Systems (NYLON 6/NYLON 11); Dielectric Properties of BaTiO3 Doped with Er2O3, Yb2O3 Based on Intergranular Contacts Model; Dielectric Properties of ACu3Ti4O12 -type Perovskites; Dielectric Properties of Rare Earth Doped Sr-M Hexaferrites
High Temperature Piezoelectric Properties of Some Bismuth Layer-Structured Ferroelectric CeramicsEffective Size of Vacancies in the Sr1-3x/2CexTiO3 Superstructure; Effect of Dopants and Processing on the Microstructure and Dielectric Properties of CaCu3Ti4O12 (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.