



Sr1 3x/2CexTiO3 Based Ceramics

By Ganesanpotti, Subodh

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Crystal Symmetry and Dielectric Properties | This book provides a detailed introduction to the preparation and characterization of microwave dielectric materials. Dielectric and structural investigation on Sr1 3x/2CexTiO3 (x=0.133 to 0.4) based ceramics is also presented. These materials possess high permittivity varying from 113 to 180 and quality factor of 8000 to 11000 GHz at 2 GHz and relatively high temperature coefficient of resonant frequency (τ_f). While no superlattice can be observed via x-ray diffraction or vibrational spectroscopy, both electron and neutron diffraction show evidence of a non-cubic super-cell caused by anti-phase tilting of oxygen octahedra. Pb substitution for Sr induces a ferroelectric transition. | Format: Paperback | Language/Sprache: english | 140 pp.



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Reviews

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