

Characterization of Ceramic-Ferrite Magneto-Electric Composites

R. Saravanan

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Magneto-electric ceramic composites are important materials for designing new microwave sensors.

Keyword: Magneto-Electric Composites, Powder X-ray diffraction (PXRD), Scanning Electron Microscopy (SEM), Energy Dispersive X-ray Spectroscopy (EDS), UV-Visible Spectrophotometry (UV-Vis), Electrical (Dielectric and P-E) Characterization, Magnetic Characterization (M-H), Structural Parameters, Morphological Studies, Elementary Analysis, Optical Studies, Electrical Studies, Magnetic Studies, Charge Density Analysis

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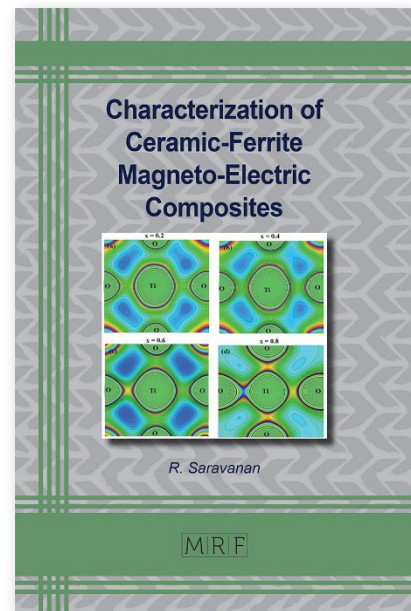
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Summary:

Magneto-electric ceramic composites are important materials for designing new microwave sensors (e.g. field probes) and devices such as filters, attenuators, capacitive resonators, gyrators and devices for medical applications. The book presents new research results for the following composite systems: $(1-x) \text{BaTiO}_3 + x \text{NiFe}_2\text{O}_4$ II $(1-x)$; $\text{BaTiO}_3 + x \text{ZnFe}_2\text{O}_4$; $(1-x) \text{BaTiO}_3 + x \text{CoFe}_2\text{O}_4$ and $(1-x) \text{BaTiO}_3 + x \text{MgFe}_2\text{O}_4$.



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