

eBook Information

Multiferroic Materials

R. Saravanan

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The magnetoelectric properties of multiferroic materials have a high potential for applications in the fields of data storage, spin valves, spintronics, memories, sensors and microelectronic devices.

Keyword: Multiferroics, Lanthanum Orthoferrites, Ferromagnetism, Ferroelectricity, Electrical Conductivity, Thermal Stability, Dielectric Constant, Solid Oxide Fuel Cell (SOFC), Magneto-Hydrodynamic Power Generation (MHD), Capacitors, Energy Storage Devices, Magnetic Memory Devices, Ferroelectric Random Access Memories (Fe-RAM), Charge Density Measurements.

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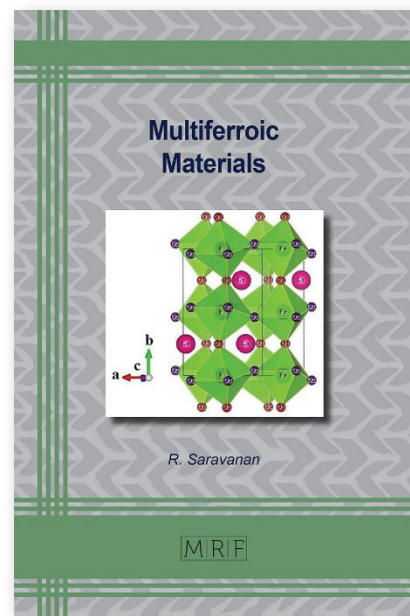
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Summary:

The magnetoelectric properties of multiferroic materials have a high potential for applications in the fields of data storage, spin valves, spintronics, memories, sensors and microelectronic devices. The book presents both a detailed literature review of the field, and the experimental results obtained from various characterization and analytical techniques performed on four series of lanthanum orthoferrite type multiferroics. These materials have been used in solid oxide fuel cells (SOFC), magneto-hydrodynamic power generation (MHD), capacitors and energy storage devices in microelectronics, non-volatile magnetic memory devices and ferroelectric random access memories (Fe-RAM).



Full Color Print Book Information

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