



Multiferroic Materials: Properties, Techniques, and Applications (Series in Materials Science and Engineering)

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"a very detailed book on multiferroics that will be useful for PhD students and researchers interested in this emerging field of materials science"

?Dr. Wilfrid Prellier, Research Director, CNRS, Caen, France

Multiferroics has emerged as one of the hottest topics in solid state physics in this millennium. The coexistence of multiple ferroic/antiferroic properties makes them useful both for fundamental studies and practical applications such as revolutionary new memory technologies and next-generation spintronics devices. This book provides an historical introduction to the field, followed by a summary of recent progress in single-phase multiferroics (type-I and type-II), multiferroic composites (bulk and nano composites), and emerging areas such as domain walls and vortices. Each chapter addresses potential technological implications. There is also a section dedicated to theoretical approaches, both phenomenological and first-principles calculations.

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