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Ferroelectrics

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Condition: New. Publisher/Verlag: Wiley-VCH | Principles and Applications | Combining both fundamental principles and real-life applications in a single volume, this book discusses the latest research results in ferroelectrics, including many new ferroelectric materials for the latest technologies, such as capacitors, transducers and memories. The first two chapters introduce dielectrics and microscopic materials properties, while the following chapter discusses pyroelectricity and piezoelectricity. The larger part of the text is devoted to ferroelectricity and ferroelectric ceramics, with not only their fundamentals but also applications discussed. The book concludes with a look at the future for laser printed materials and applications. With over 600 references to recent publications on piezoelectric and ferroelectric materials, this is an invaluable reference for physicists, materials scientists and engineers. | DIELECTRIC PROPERTIES OF MATERIALS Energy Bands in Crystals Conductor, Insulator and Semiconductor Fermi-Dirac Distribution Function Dielectrics MICROSCOPIC PROPERTIES OF MATERIALS Phonon Phase Transition PYROELECTRICITY AND PIEZOELECTRICITY Pyroelectricity Piezoelectricity Application of Piezoelectric Materials FERROELECTRICITY Ferroelectrics Classification of Ferroelectric Materials FERROELECTRIC CERAMICS: DEVICES AND APPLICATIONS Capacitors Explosive-to-Electrical Transducers Composites Thin Films Alternative Memories Based on Ferroelectric Materials Nanoscale Ferroelectrics Electro-optic Devices Photoelastic Devices Photorefractive Devices | Format: Hardback | Language/Sprache: english | 854 gr | 249x175x18 mm.



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