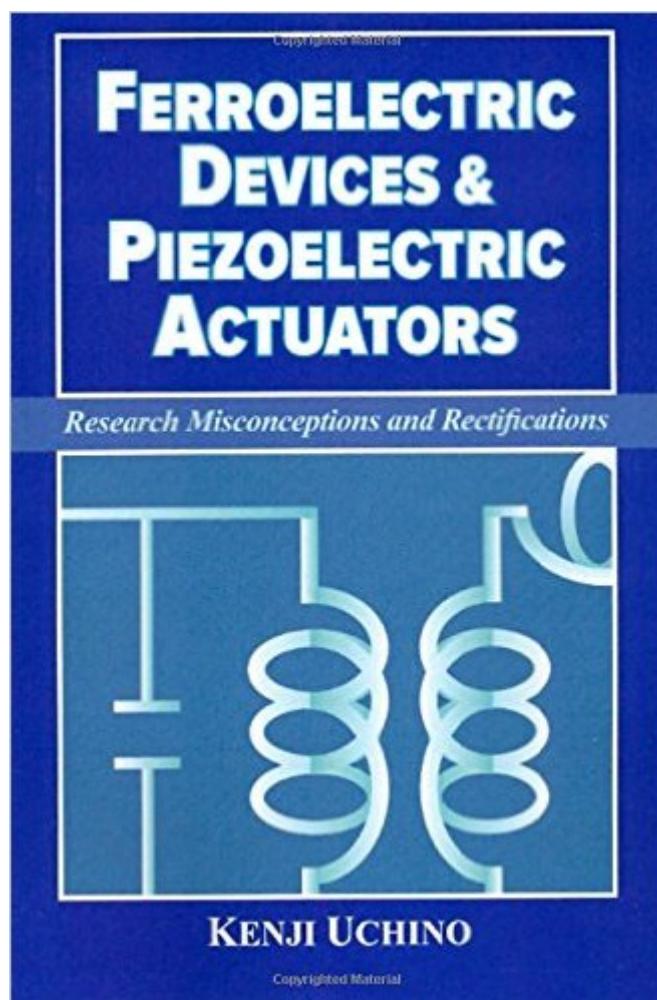


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Ferroelectric Devices & Piezoelectric Actuators: Research Misconceptions And Rectifications



Synopsis

Principles and best practices for improved understanding and design of piezoelectrics New problems and solutions for ferroelectrics design, fabrication and applications This volume investigates basic principles and shared understandings regarding the materials and properties of piezoelectrics and ferroelectrics, including concepts such ionic displacement and strain, transmission coefficient, constraint-dependency of piezo materials properties, mechanical impedance matching, resonance/anti-resonance and more. The author demonstrates how misguided or false versions of these and similar ideas and formulas negatively influence research, instruction and design. At the same time, Uchino, an acknowledged worldwide expert in piezoelectric R&D, provides ways to correct such faulty approaches, and in so doing offers a practical synopsis of methods and formulas for producing a wide array of electroactive and electronic materials. The second part of the book contains problems and solutions in the area of ferroelectric devices, including problems associated with the design and performance of dielectrics, memory devices, electro-optic, pyroelectric devices and more.

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