



# Piezoelectric and Acoustic Materials for Transducer Applications

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The book discusses the underlying physical principles of piezoelectric materials, important properties of ferroelectric/piezoelectric materials used in today's transducer technology, and the principles used in transducer design. It provides examples of a wide range of applications of such materials along with the appertaining rationales. With contributions from distinguished researchers, this is a comprehensive reference on all the pertinent aspects of piezoelectric materials.

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### Editorial Review

From the Back Cover

*Piezoelectric and Acoustic Materials for Transducer Applications* combines discussion of the physical properties of piezoelectric and acoustic materials, with the fundamentals, design principles and fabrication methods, and their application in transducers. This book serves as a comprehensive reference on all aspects of piezoelectric materials, such as thermodynamics, crystallography, crystal chemistry, and piezoelectric composite fabrication techniques as they pertain to piezoelectric transducer design and applications.

The chapters in this book cover a wide range of topics, which are separated into four sections:

- Section I. Fundamentals of Piezoelectricity
- Section II. Piezoelectric and Acoustic Materials for Transducer Technology
- Section III. Transducer Design and Principles
- Section IV. Piezoelectric Transducer Fabrication Methods

*Piezoelectric and Acoustic Materials for Transducer Applications* is written by a diverse group of renowned experts from around the world, and is appropriate for scientists and engineers in a variety of disciplines.

### About the Author

Professor Safari is a Fellow of American Ceramic Society; Centennial Fellow of the College of Earth and Mineral Science, The Pennsylvania State University; Honorary Professor of Harbin Institute of Technology, Harbin China; and president of the IEEE Ultrasonics Ferroelectrics and Frequency Control Society.

Dr. Safari has published over 300 refereed journal articles, and has been granted 18 U.S. patents. He chaired the 10th International Symposium on the Applications of Ferroelectric (August 1996, East Brunswick NJ) and 7th US-Japan meeting on Ferroelectric and Dielectric Materials (Tsukuba, Japan, November 1995).

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