



Ultrasonic Measurement Methods (Physical Acoustics)

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Ultrasonic Measurement Methods describes methods used in ultrasonic measurements and covers topics ranging from radiated fields of ultrasonic transducers to the measurement of ultrasonic velocity and ultrasonic attenuation, along with the physical principles of measurements with electromagnetic-acoustic transducers (EMATs). Optical detection of ultrasound and measurement of the electrical characteristics of piezoelectric devices are also examined.

Comprised of seven chapters, this volume begins with an analysis of the radiated fields of ultrasonic transducers, followed by a discussion on the measurement of ultrasonic velocity and attenuation. The next chapter describes the physical principles of measurement with EMATs and the advantages of such devices based on their couplant-free operation. Optical detection of ultrasound is then considered, together with the problem of measuring the electrical characteristics of piezoelectric resonators and standard methods for obtaining the equivalent electrical parameter values. The final chapter is devoted to ultrasonic pulse scattering in solids and highlights many fascinating examples of wave scattering, some of which are accompanied by theoretical analysis.

This book will be of interest to physicists.

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