



Ultrasonic Exposimetry

Peter A. Lewin, Marvin C. Ziskin

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Ultrasonic Exposimetry presents the fundamentals of ultrasonics and discusses the theoretical background of acoustic wave generation and reception. Measurements, instrumentation, and interpretation of measured data (including error analysis) are examined in detail.

Ultrasound transducers, including transducers used in diagnostic imaging and therapeutic applications, are described. This section also presents a detailed description of transducers used in the recently introduced extracorporeal lithotripsy procedure.

Other topics examined in the book include current trends in labeling and characterizing acoustic devices (including present regulatory requirements and future implications), the operation of state-of-the-art miniature PVDF ultrasonic hydrophones and fiber optic hydrophones, recent advances in transducer calibration and calorimeter and radiation force measurements, and the intricacies of statistical error analysis.

Ultrasonic Exposimetry presents a wealth of invaluable information for students, instructors, researchers, biomedical engineers, and sonographers.

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