



Ultrasonic Nondestructive Evaluation: Engineering and Biological Material Characterization

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Most books on ultrasonic nondestructive evaluation (NDE) focus either on its theoretical background or on advanced applications. Furthermore, information on the most current applications, such as guided wave techniques and acoustic microscopy, is scattered throughout various conference proceedings and journals. No one book has integrated these aspects into a treatment that is both self-contained and up-to-date.

Ultrasonic Nondestructive Evaluation: Engineering and Biological Material Characterization brings together the principles, equations, and applications of ultrasonic NDE, both traditional and state-of-the-art, in a single, authoritative resource. It begins with the relevant fundamentals of mechanics, derives the basic equations of the mechanics of elastic wave propagation, and then, step-by-step, covers the advanced topics and applications of ultrasonic NDE that are at the forefront of today's research. These include engineering, biological, and clinical applications, such as structural health monitoring, the characterization of biological cells, and real-time blood flow measurement.

Written in plain language by some of the world's leading experts, the chapters are filled with case studies, worked examples, and exercises that help make this book an outstanding resource for course work, as well as for reference. If you are looking for that one book that can bring you quickly up-to-speed on the principles, technologies, and latest applications of ultrasonic NDE, look no further than this book.

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