



Ultrasonic and Electromagnetic NDE for Structure and Material Characterization: Engineering and Biomedical Applications

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Most books on nondestructive evaluation (NDE) focus either on the theoretical background or on advanced applications. Bridging the gap between the two, **Ultrasonic and Electromagnetic NDE for Structure and Material Characterization: Engineering and Biomedical Applications** brings together the principles, equations, and applications of ultrasonic and electromagnetic NDE in a single, authoritative resource. This is also one of the first books to incorporate a number of popular NDE methods based on electromagnetic techniques.

Combines Engineering and Biological Material Characterization Techniques in One Book

The book begins with the relevant fundamentals of mechanics and electromagnetic theory, derives the basic equations, and then, step by step, covers state-of-the-art topics and applications of ultrasonic and electromagnetic NDE that are at the forefront of research. These include engineering, biological, and clinical applications such as structural health monitoring, acoustic microscopy, the characterization of biological cells, and terahertz imaging.

Covers Numerous Applications of Ultrasonic and Electromagnetic Techniques—from the Traditional to the Advanced

Written in plain language by some of the world's leading experts, the book includes worked-out examples and exercises that make this an outstanding resource for coursework. The coverage of traditional and advanced NDE applications also appeals to practicing engineers and researchers.

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