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Fundamentals of Ultrasonic Nondestructive Evaluation: A Modeling Approach (Springer Series in Measurement Science and Technology)

Lester W. Schmerr Jr

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This extensively revised and updated second edition of a widely read classic presents the use of ultrasound in nondestructive evaluation (NDE) inspections. Retaining the first edition's use of wave propagation /scattering theory and linear system theory, this volume also adds significant new material including:

- the introduction of MATLAB® functions and scripts that evaluate key results involving beam propagation and scattering, flaw sizing, and the modeling of ultrasonic systems.
- elements of Gaussian beam theory and a multi-Gaussian ultrasonic beam model for bulk wave transducers.
- a new chapter on the connection between ultrasonic modeling and probability of detection (POD) and reliability models.
- new and improved derivations of ultrasonic measurement models.
- updated coverage of ultrasonic simulators that have been developed around the world.

Students, engineers, and researchers working in the ultrasonic NDE field will find a wealth of information on the modeling of ultrasonic inspections and the fundamental ultrasonic experiments that support those models in this new edition.

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