



Ultrasonic Nondestructive Evaluation Systems: Models and Measurements

By Lester Schmerr, Jung-Sin Song

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Using a systems level approach, this book employs aspects of linear systems theory and wave propagation and scattering theory to develop a comprehensive model of an entire ultrasonic measurement system. This integrated approach leads to a new model-based engineering technology for designing, using and optimizing ultrasonic nondestructive evaluation inspections. In addition, the book incorporates MATLAB examples and exercises.

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Editorial Review

From the Back Cover

Ultrasonic Nondestructive Evaluation Systems: Models and Measurements provides the latest information and techniques available for ultrasonic nondestructive evaluation (NDE) inspections. Using a systems level approach, this book employs aspects of Fourier analysis, linear system theory, and wave propagation and scattering theory to develop a comprehensive model of an entire ultrasonic measurement system. The book also describes in detail the measurements needed to obtain all the system model parameters. This integrated approach leads to a new model-based engineering technology for designing, using and optimizing ultrasonic nondestructive evaluation inspections.

Practicing engineers, teachers, and students alike will learn about the latest developments in NDE technology, including a recently developed pulse-echo method for measuring the sensitivity of an ultrasonic transducer, and the use of Gaussian beam theory in simulating the wave fields generated by ultrasonic transducers. In addition, this unique book incorporates MATLAB examples and exercises which allow readers to conduct simulated inspections and implement the latest modeling technology.

Written by recognized experts in NDE research, Ultrasonic Nondestructive Evaluation Systems: Models and Measurements is designed to combine well-developed techniques with the latest advances in technology.

Users Review

From reader reviews:

Anthony Laflamme:

What do you in relation to book? It is not important along with you? Or just adding material when you want something to explain what you problem? How about your time? Or are you busy particular person? If you don't have spare time to perform others business, it is make you feel bored faster. And you have free time? What did you do? Everyone has many questions above. The doctor has to answer that question due to the fact just their can do that. It said that about reserve. Book is familiar on every person. Yes, it is right. Because start from on guardería until university need this specific Ultrasonic Nondestructive Evaluation Systems: Models and Measurements to read.

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