



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:

Larry Chaffin:

Do you have favorite book? In case you have, what is your favorite's book? Book is very important thing for us to learn everything in the world. Each guide has different aim or even goal; it means that book has different type. Some people feel enjoy to spend their time and energy to read a book. They are really reading whatever they get because their hobby is definitely reading a book. Consider the person who don't like reading a book? Sometime, man feel need book whenever they found difficult problem as well as exercise. Well, probably you will want this Ultrasonic Nondestructive Evaluation Systems: Models and Measurements.

Thomas Hall:

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Gregory McKinney:

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Daniel Bailey:

A lot of people always spent their particular free time to vacation or perhaps go to the outside with them friends and family or their friend. Were you aware? Many a lot of people spent many people free time just watching TV, or perhaps playing video games all day long. If you want to try to find a new activity that's look different you can read some sort of book. It is really fun for you personally. If you enjoy the book that you simply read you can spent 24 hours a day to reading a publication. The book Ultrasonic Nondestructive Evaluation Systems: Models and Measurements it is rather good to read. There are a lot of people who recommended this book. They were enjoying reading this book. In case you did not have enough space to create this book you can buy the e-book. You can more easily to read this book from your smart phone. The price is not too costly but this book provides high quality.

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