

Elastic waves in composite media and structures: with applications to ultrasonic nondestructive evaluation

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Abstrak

New applications for composite materials are being developed at a rapid pace. However, their complex microstructures present considerable challenges for testing and characterization. Researchers must harness a clear understanding of guided elastic wave propagation characteristics so that they may predict the dynamic response of these new composite materials and interpret the ultrasonic nondestructive evaluation of their mechanical properties." "Elastic Waves in Composite Media and Structures presents effective analytical and numerical techniques to study the characteristic features of elastic guided waves in fiber reinforced laminated media. CD-ROM contains executable computer programs, which can be used to simulate different scenarios for designing ultrasonic instruments