



## Guided Waves in Structures for SHM: The Time - Domain Spectral Element Method (Hardback)

By Wiesław Ostachowicz, Paweł Kudela, Marek Krawczuk

John Wiley and Sons Ltd, United States, 2012. Hardback. Book Condition: New. 1. Auflage. 238 x 163 mm. Language: English . Brand New Book. Understanding and analysing the complex phenomena related to elastic wave propagation has been the subject of intense research for many years and has enabled application in numerous fields of technology, including structural health monitoring (SHM). In the course of the rapid advancement of diagnostic methods utilising elastic wave propagation, it has become clear that existing methods of elastic wave modeling and analysis are not always very useful; developing numerical methods aimed at modeling and analysing these phenomena has become a necessity. Furthermore, any methods developed need to be verified experimentally, which has become achievable with the advancement of measurement methods utilising laser vibrometry. Guided Waves in Structures for SHM reports on the simulation, analysis and experimental investigation related propagation of elastic waves in isotropic or laminated structures. The full spectrum of theoretical and practical issues associated with propagation of elastic waves is presented and discussed in this one study. Key features: Covers both numerical and experimental aspects of modeling, analysis and measurement of elastic wave propagation in structural elements formed from isotropic or composite materials  
Comprehensively...

### Reviews

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