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Guided Wave Propagation In Composite

Guided waves are an efficient non-destructive tool in inspection and fault detection of elongated structures. Due to the special characteristics of

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composite materials, study of guided wave propagation in them has been an interest. In the current work, application of

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Characteristics of guided waves propagation in bonded composite

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structures with tapered adhesive layer are investigated in this paper.

Hamilton's principle and a semi-analytical finite element method are combined to study the wave propagation problem numerically that account for different properties of adhesive layer.

Propagation of guided waves in

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In this article, a semi-analytical finite element approach is presented to model guided wave excitation and propagation in damped composite plates. The theoretical framework is formulated using finite element method to describe the material behavior in the thickness direction while assuming analytical

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expressions in the wave propagation direction along the plate.

Guided wave excitation and propagation in damped composite

...

Many computational methods for guided wave propagation in composite plates have been developed.¹³ However, the

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modeling of guided wave propagation in composites, by itself, is a very challenging task. The difficulties come from the multimode, dispersive, and direction-dependent features of guided wave propagation in composites.

Guided wave excitation and propagation in damped composite

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Keywords Composite material, guided wave propagation, numerical modeling, wave attenuation, wave dispersion, damage, structural health monitoring

References Ali, R, Mahapatra, DR, Gopalakrishnan, S (2005) Constrained piezoelectric thin film for sensing of subsurface cracks .

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Ultrasonic guided wave propagation in composites including ...

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Guided Wave Propagation In Composite Structures

Ultrasonic guided wave propagation in composite materials has been investigated theoretically and experimentally for many years. It was found that symmetric (S_0) Lamb wave

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has much lower attenuation than asymmetric (A0) Lamb wave in composite material. Much research was performed to make a transducer generate SO-mode wave.

Composite Inspection, LRUT ... - Guided Wave Testing

Shoja et al. showed the results of

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numerical simulations concerning guided wave propagation in composite laminates with delamination introduced into the model by local stiffness reduction. The problem of propagation of fundamental antisymmetric mode A_0 in composite laminates with semi-infinite debonding was a topic of interest for Ramadas et al. [11].

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Guided Wave Propagation in Detection of Partial ...

guided wave propagation helps understanding the interaction between the material damage and the guided waves. The finite element method (FEM) approach is traditionally used for modeling elastic wave propagation [6,

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7]. Many authors modeled LW propagation through FRP media without considering the damping effect [8, 9].

PREDICTION OF ATTENUATED GUIDED WAVE PROPAGATION IN CARBON ...

This approach employs piezoelectric composite materials as both load

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bearing and sensing elements. Finite element modal analysis of a plate unit cell with Bloch-Floquet boundary condition is performed to understand the guided wave propagation characteristics in piezoelectric composite plates.

Guided Wave Generation and Propagation in Self-Sensing ...

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and the purpose is basically to obtain the guided wave propagation mechanism in the composite laminates[10-16]. In case of researches on cylinder structures, ultrasonic guided waves have been widely utilized for long range inspection of structures such as oil and petrochemical pipes[17-23]. It should be

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Guided Wave Propagating Behavior in Composite Pressure Vessel

In this article, the SBFEM is used to analyse wave propagation in a plate consisting of an isotropic aluminium layer bonded as a hybrid to an anisotropic carbon fibre reinforced plastics layer.

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(PDF) Analysis of Guided Wave Propagation in a Multi ...

Shoja et al. showed the results of numerical simulations concerning guided wave propagation in composite laminates with delamination introduced into the model by local stiffness reduction. The problem of propagation of

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fundamental antisymmetric mode A₀ in composite laminates with semi-infinite debonding was a topic of interest for Ramadas et al. [11].

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structural health monitoring (SHM) of composite structures can be achieved by

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using low-frequency guided ultrasonic waves as they have advantages of propagating over large structure and being sensitive to defects located at any thickness position. This work focuses on the use of first antisymmetric guided wave mode (A_0)

Propagation and Scattering of

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Guided Waves in Composite ...

the challenges posed by using PWAS transducers in the composite laminate structures as different from the metallic structures on which this methodology was initially developed. After a brief introduction, the paper reviews the PWAS-based SHM principles. It follows with a discussion of guided wave

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propagation in composites and PWAS
tuning effects.

Guided wave propagation in composite laminates using ...

The objective of this work was to investigate the propagation of ultrasonic guided waves (UGW) along composite multi-wire ropes in the cases of various

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types of acoustic contacts between neighboring wires and the plastic core.

Propagation of Ultrasonic Guided Waves in Composite Multi ...

Guided waves are capable of interrogating the entire cross sectional area of the inspected structure and have high sensitivity to various defects [15],

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[16]. However, guided wave based inspection of composites is challenging due to the complicated wave propagation in anisotropic viscoelastic media [17], [18], [19].

Anisotropic effects on ultrasonic guided waves propagation ...

The guided Lamb wave is widely

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acknowledged as one of the most encouraging tools for quantitative identification of damage in composite structures, and relevant research has been conducted ...

Analysis of Ultrasonic Guided Waves Propagation in Complex ...

the leaky Lamb wave propagation in the

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composite skin and the sensitivity of different guided Lamb wave modes to the composite skin-Nomex core debonding was demonstrated by frequency sweeping using wedge transducers. Based on the comb transducers, Qi et al (2008) proposed a method by using leaky surface wave propagation in the honeycomb ...

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