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This approach has been extended and applied by Liu and Shu (2012) to study free vibrations of rotating Timoshenko beams with multiple delamination. Wang et al. (1982) introduced the so-called "free model" where sublaminates are free to vibrate, which results in interpenetration of the delaminated sublaminates.

Dynamics of a composite Timoshenko beam with delamination ...

In [31], to prevent overlapping, the dynamics of a delaminated beam was studied using a piecewise linear virtual spring model, whereas the kinematic contact conditions were established using the ...

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M.H. Kargarnovin et al. / Forced vibration of delaminated Timoshenko beams under the moving oscillatory mass 81 vibration of a continuum with a moving oscillator. In there, the flexibility in the boundaries was modeled by linear and transverse springs. The dynamic response of an elastically supported infinite beam to an oscillatory mass with

Forced vibration of delaminated Timoshenko beams under the ...

Dynamics of a Delaminated Timoshenko Beam Subjected to a Moving Oscillatory Mass Autores: MohammadH Kargarnovin , Mohammad T. Ahmadian , Ramazan-Ali Jafari-Talookolaei Localización: Mechanics based design of structures and machines , ISSN 1539-7734, Vol. 40, Nº. 2, 2012 , págs. 218-240

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Kargarnovin, M. T. Ahmadian and R. A. Jafari-Talookolaei, Dynamics of a delaminated Timoshenko beam subjected to a moving oscillatory mass, Mech. Based Des. Struct. Mach. 40 (2) (2012) 218-240.

Dynamic Response of a Nonuniform Timoshenko Beam with ...

The static and dynamic stability of the composite beam with a single delamination are investigated using the Timoshenko beam theory. The mechanical model is discretized using the finite element method and the equation of motion is obtained using Hamilton's principle. The coefficients of the mass and stiffness matrix for the damping matrix are determined using experimental modal analysis.

Dynamic Stability of a Structurally Damped Delaminated ...

Dynamics of a Delaminated Timoshenko Beam Subjected to a Moving Oscillatory Mass. Mechanics Based Design of Structures and Machines, Vol. 40, No. 2. NUMERICAL AND EXPERIMENTAL STUDY ON FREE VIBRATION OF DELAMINATED WOVEN FIBER GLASS/EPOXY COMPOSITE PLATES.

Free vibrations of delaminated beams | AIAA Journal

However, they believed that the appearance of these modes in a dynamic response is not feasible because of possible overlap between the delaminated sublaminates. To avoid this kind of incompatibility and keep a linear model, they imposed a pressure between the delaminated parts, that is, two delaminated parts were constrained to have the same flexural deformations.

Dynamics of delaminated beams - ScienceDirect

On the dynamic response of a delaminated composite beam under the motion of an oscillating mass 25 January 2012 | Journal of Composite Materials, Vol. 46, No. 22 Dynamics of a Delaminated Timoshenko Beam Subjected to a Moving Oscillatory Mass

Free vibration of delaminated composite sandwich beams ...

Dynamic analysis of the rotating delaminated beam has received limited attention. Recently, Liu and Shu [23] presented analytical solutions for the free vibrations of rotating isotropic beams with multiple delaminations. The Timoshenko beam theory and both the free mode and the Nomenclature L beam length b · h rectangular cross-section of the ...

Dynamic behavior of a rotating delaminated composite beam ...

Recently, Kargarnovin et al. have been studying the dynamic response of the delaminated Timoshenko beam based on the constrained mode model under the action of moving force [2325] and moving oscillatory mass [26, 27] in which the bending-tension coupling has been ignored.

Dynamics of a generally layered composite beam with single ...

Lee, D. Kim and I. Park, Dynamic modeling and analysis of the PZT-bonded composite Timoshenko beams: Spectral element method, J. Sound. Vibr. 332 (6) (2013) 1585-1609. Crossref , ISI , Google Scholar

Longitudinal and Transverse Coupling Dynamic Properties of ...

Free vibration of functionally graded beams with a through-width delamination is investigated. It is assumed that the material property is varied in the thickness direction as power law functions and a single through-width delamination is located parallel to the beam axis. The beam is subdivided into three regions and four elements. Governing equations of the beam segments are derived based on ...

Free vibration of FGM Timoshenko beams with through-width ...

the dynamic behaviour of the delaminated structures could be very useful in the development of the vibration based methods for delamination detection. Many models on the dynamic behaviour of beams with delamination exist. In [1] Wang et al. introduced the so-called "free model" where sublaminates were free to vibrate,

LARGE AMPLITUDE VIBRATIONS OF TIMOSHENKO BEAMS WITH ...

delamination [5]. In most of the models of dynamic behaviour of beams with delamination, the shear forces during the sublaminate interaction and the additional damping arising due to friction between sublaminates are neglected. A model of the dynamic response of a composite Timoshenko beam

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