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Jenarthanan, VM, Sreehari Source:  
Journal of natural fibers 2020 v.17 no.5  
pp. 688-699 ISSN: 1544-046X Subject:  
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A novel vibrational numerical method was used by Ansari et al. to investigate the free vibration of composite conical shells. 2D-FGM truncated conical shell resting on Winkler-Pasternak foundations was studied by Asanjarani et al. using the differential quadrature

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## **Composite Conical Shells with ...**

Free vibration analysis is performed to obtain the natural frequencies of a structure. The natural frequencies of composite plates have been a subject of research in the recent past because of the widespread application of composite structures.

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However, free vibration studied on the basalt laminates composite plates with elliptical cut-out and correlation of natural frequency with buckling load has been very limited. Therefore, effects ...

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Subramanian [29] developed the free vibration analysis of laminated composite beams applying two higher-order displacement-based shear deformation theories and finite elements based on the theories.

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## **Composite Laminated Beams**

In this paper, a unified analysis model is proposed for the first time to study the free vibration of laminated composite elliptic cylinders with general boundary conditions including the classical boundary, elastic boundary and their combinations.

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## **Free vibration analysis of laminated composite elliptic ...**

hierarchical finite element method applied to free vibration analysis of rotating composite shafts. The hierarchical concept for finite element shape functions has been investigated during the past 25 years. Babuska et al. established a theoretical basis for

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The vibration analysis of composite

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laminates with cutout has also received considerable attentions since the last decade. However, due to their layer independent material constants, the modeling seems to be more complicate. Rajamani et al., formulated the forced and free vibrations of composite plates with cutouts.

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To the authors' best knowledge, it is the first time the method of discrete singular convolution based on the different kernels and harmonic differential



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quadrature methods have been used for modeling and analysis for free vibration problem of FGM composite annular sector and sector plates.

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Currently, there are many computational methods available for the free vibration

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analysis of laminated composite cylindrical shells. These methods can be classified as analytical methods and numerical methods. Among the analytical methods, the method of closed-form solution is used extensivelyt  
3.

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In the present paper, vibration behavior of hybrid laminated composite cylindrical shells reinforced with shape memory alloy fibers is investigated. Material properties of shape memory alloy fibers...

## **Free vibration analysis of hybrid**

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Vibration analysis of floors is not entirely new in the field of structural engineering. Numerous studies and researches have been devoted to human-structure interaction, with emphasis on human perception of vibration in civil engineering structures. Recently, the quest for construction of slender

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structures with large unobstructed areas (with flexible partitioning) has made the idea of [...]

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Isogeometric analysis (IGA) based on nonuniform rational B-splines (NURBS) is applied for static and free vibration

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analysis of laminated composite plates by using the third order shear deformation theory (TSDT). TSDT requires  $C^1$ -continuity of generalized displacements and NURBS basis functions are well-suited for this requirement.

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This study presents a novel approach for the vibration and damping analysis of arbitrarily curved n-layered sandwich beams. The governing equations ar...

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Zhang, L., Z. Lei, and K. Liew, Free

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vibration analysis of functionally graded carbon nanotube- reinforced composite triangular plates using the FS DT and element-free IMLS-Ritz method.  
Composite...

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The vibration suppression analysis of a



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simply-supported laminated composite beam with magnetostrictive layers resting on visco-Pasternak's foundation is presented. The constant gain distributed controller of the velocity feedback is utilized for the purpose of vibration damping. The formulation of displacement field is proposed according to Euler-Bernoulli's classical beam

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## **Vibration suppression of magnetostrictive laminated beams**

...

A series of plate elements, based on the modified complementary energy principal, are developed to study the free undamped vibration response of

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laminated composite plates. The Mindlin thin plate theory is selected to govern the general characteristics and behavior of these plate elements.

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A numerical investigation is performed to study the free vibration responses of

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a width tapered composite beam. The finite element simulation is performed to investigate the effect of taper angle along the longitudinal plane of the beam on the free transverse vibration responses.

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