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A new simple shear deformation plate theory. ... The first verification for free vibration analysis was carried out for SS square plates. ... A simple and accurate shear deformation theory has been proposed for thick isotropic plates. The governing equations of motion of the present theory were derived based on 3D elasticity theory and RPT.

[A novel and simple higher order shear deformation theory ...](#)

In this paper, a new higher-order shear deformation theory for bending and free vibration analysis of functionally graded plates is developed. The present theory has only four unknowns, but it accounts for a parabolic variation of transverse shear strains through the thickness of the plate. A shear correction factor is, therefore, not required.

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The vibration spectrum provides important frequency information that can pinpoint the faulty component. The fundamentals of vibration analysis can be understood by studying the simple Mass-spring-damper model. Indeed, even a complex structure such as an automobile body can be modeled as a "summation" of simple mass-spring-damper models.

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In this paper, a simple beam theory accounting for shear deformation effects with one unknown is proposed for static bending and free vibration analysis of isotropic nanobeams.

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of vibration problems, and hopefully to provide both the novice and the experi-enced Matlab programmer a few new tricks with which to attack their problems of interest. Matlab (Matrix Laboratory) was born from the LINPACK routines written ... easy for an experienced C or Fortran programmer to learn Matlab.

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This paper presents a simple first-order shear deformation theory for the bending and free vibration analysis of functionally graded plates. Unlike the conventional first-order shear deformation theory, the present first-order shear deformation theory contains only four unknowns and has strong similarities with the classical plate theory in many aspects such as governing equations of motion ...

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[An efficient and simple refined theory for bending and ...](#)

A refined simple first-order shear deformation theory is developed to investigate the static bending and free vibration of advanced composite plates such as functionally graded plates.

[A simple shear deformation theory for nonlocal beams ...](#)

SpringerLink. Search SpringerLink ... January 2016, Volume 38, Issue 1, pp 265–275 | Cite as. Bending and free vibration analysis of functionally graded plates using a simple shear deformation theory and the concept the neutral surface position ... (2014) A refined and simple shear deformation theory for thermal buckling of solar functionally ...

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[A simple higher-order shear deformation theory for bending ...](#)

Euler-Bernoulli beam theory (also known as engineer's beam theory or classical beam theory) is a simplification of the linear theory of elasticity which provides a means of calculating the load-carrying and deflection characteristics of beams. It covers the case for small deflections of a beam that are subjected to lateral loads only. It is thus a special case of Timoshenko beam theory.

[A new simple shear deformation plate theory - ScienceDirect](#)

An efficient and simple refined theory for bending and vibration of functionally graded plates. Author links open overlay panel M.E. Fares M.Kh. Elmarghany Doaa Atta. Show more. ... P.A.L.S. Martins Static analysis of functionally graded plates using third-order shear deformation theory and a meshless method. Compos Struct, 69 (2005), pp. 449 ...

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A simple higher-order shear deformation theory for bending and free vibration analysis of functionally graded plates Article in Archive of Applied Mechanics doi: 10.1016/j.compstruct.2012.08.025 ...

[A simple first-order shear deformation theory for the ...](#)

A novel and simple higher order shear deformation theory for stability and vibration of functionally graded sandwich plate Sekkal, Mohamed (Material and Hydrology Laboratory, University of Sidi Bel Abbes, Faculty of Technology, Civil Engineering Department) ;

[A simple higher-order shear deformation theory for bending ...](#)

In this paper, a simple beam theory accounting for shear deformation effects with one unknown is proposed for static bending and free vibration analysis of isotropic nanobeams. The size-dependent behaviour is captured by using the nonlocal differential constitutive relations of Eringen.

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