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Shear Deformable Beams and Plates : C. M. Wang : 9780080437842

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plates. In order to remedy this situation, a number of shear deformable plate theories have been developed. The simplest one is the first-order shear deformation plate theory such as the Reissner-Mindlin theory which assumes that the transverse shear strains are constant in the thickness direction and requires a shear correction factor to ...

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The classical beam/plate theory is not adequate in providing accurate bending, buckling, and vibration results when the thickness-to-length ratio of the beam/plate is relatively large. This is because the effect of transverse shear strains, neglected in the classical theory, becomes significant in deep beams and thick plates.

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title = "Meshless methods for shear-deformable beams and plates", abstract = "A meshless method is developed to analyze moderately thick and thin structures using Mindlin-Reissner theory. A uniform discretization is used to allow for efficient integration and for the shape functions to be written explicitly.

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In this paper a general solution for the dynamic analysis of shear deformable stiffened plates subjected to arbitrary loading is presented. According to the proposed model, the stiffening beams are isolated from the plate by sections in the lower outer surface of the plate, taking into account the arising tractions in all directions at the fictitious interfaces.

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@inproceedings{Donning1998MeshlessMF, title={Meshless methods for shear-deformable beams and plates}, author={Brian M. Donning and Wing Kam Liu}, year={1998} } Brian M. Donning, Wing Kam Liu Abstract A meshless method is developed to analyze moderately thick and thin structures using Mindlin ...

Buckling of Shear-Deformable Plates | AIAA Journal

Thick plates are plates where the contribution of the shear force on the deformations is considered. Based on the three basic equations of continuum mechanics, i.e., the kinematics relationship, the constitutive law, and the equilibrium equation, the partial differential equations, which describes the physical problem, is derived.

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Shear deformation effect in the dynamic analysis of plates ...

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variable refined plate theory for forced-vibration analysis of sigmoid functionally graded plates on elastic foundation.

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