

Dynamic Buckling of Laminated Composite Stiffened Plates

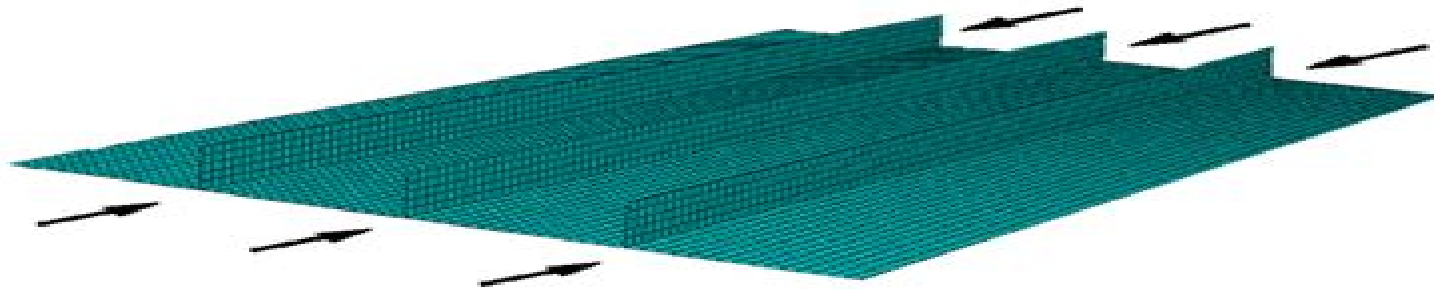
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ABSTRACT

This paper deals with the dynamic buckling analysis of laminated stiffened plates subjected to impulsive in-plane loading along the edges. The modeling and the analysis is carried out using the ABAQUS/Explicit finite element software. The S4R shell element is adopted in the present analysis to model both the plate skin and stiffeners. The impulsive load of different variation and duration is applied and the buckling of the stiffened plates are examined, using the equation of motion approach. The convergence study of the present formulation is carried out first and the results are compared with the results published in the literature. The effects of loading function, loading duration, number of layers, lamination scheme, positions of the stiffeners, size of stiffeners and boundary conditions on the dynamic buckling response of the laminated composite stiffened plates are considered and the results are discussed. The dynamic buckling loads are also compared with the static buckling load and the results are reported.



REFERENCE: Chiara Bisagni (2004), "Dynamic buckling of fiber composite shells under impulsive axial compression", Milano. www.elsevier.com/locate/tws, Thin-Walled Structures 43 (2005) 499–514

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Dynamic Buckling Of Stiffened Plates Under Fluid Solid

A Loxley

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

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