

عنوان مقاله:

Stability of Simply Supported Rectangular Isotropic Plates by Analytical Method

محل انتشار:

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خلاصه مقاله:

In the present paper stability of isotropic rectangular plate is considered. It is established, that the problems of buckling by symmetric and anti-symmetric shapes are decoupled. Then these problems are investigated based on Levy analytical method. Obtained results, for particular limit case of boundary condition convergence to the results available in the literature, which serves as additional verification of the proposed analysis. The effects of change in aspect ratio of the plate on the buckling critical loads and mode shapes are illustrated in graphically.

کلمات کلیدی:

stability, isotropic plate, rectangular plate, simply supported

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