

Stability of a cylindrical shell under axial compression

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Abstract

© 2015, Allerton Press, Inc. A new approach to solving the task of stability for a circular cylindrical shell under axial compression is presented, taking into account the dynamic buckling. The modification of the algorithm for solving the known problem by the Ritz method is also proposed that allows investigating the effect of geometrical factors on the buckling load.

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Keywords

buckling load, deflection, shell, stability