BUCKLING OF A CANTILEVER SUBJECTED TO DISTRIBUTED NORMAL LOADS, TAKING SHEARING DEFORMATION INTO ACCOUNT

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[Manuscript received July 10, 1978]

The paper deals with the planar stability analysis of a bar having a built-in low and a free upper end. It is subjected to distributed normal loads and is capable of shearing deformation as well. An approximate solution is given by applying Föpp combining theorem. The differential equation of the problem is solved numerically, and a curve is given for the more accurate determination of the critical load.

1. Introduction