ONE DIMENSIONAL LONGTUDINAL VIBRATIONS IN A MICRO-ISTROPIC, MICRO-ELASTIC CYLINDER

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Abstract

In this paper, the one dimensional longitudinal vibrations in a micro-isotropic, micro-elastic cylinder has been discussed. The frequency equations are derived. It is observed that the additional waves are found in comparison with the classical case. Further the result of classical elasticity is obtained as a particular case of it.

Key Words: One dimensional longitudinal vibrations- micro elastic cylinder