

عنوان مقاله:

Analysis of Wave Motion in a Micropolar Transversely Isotropic Medium

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خلاصه مقاله:

The present investigation deals with the propagation of waves in a micropolar transversely isotropic layer. Secular equations for symmetric and skew-symmetric modes of wave propagation in completely separate terms are derived. The amplitudes of displacements and microrotation were also obtained. Finally, the numerical solution was carried out for aluminium epoxy material and the dispersion curves. Amplitudes of displacements and microrotation for symmetric and skew-symmetric wave modes are presented to evince the effect of anisotropy. Some particular cases are also deduced.

کلمات کلیدی:

Micropolar, Transversely isotropic, Amplitude ratios

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