Impact of two Temperature in Thermoelastic Media

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ABSTRACT

In this paper,the effect of angle of inclination at the interface of a transversely isotropic thermoelastic media due to inclined load is investigated. Effect of two temperature on the various inclinations is analysed.Result is derived and analysed on the components of displacement, stresses and conductive temperature.Laplace transform with respect to time variable and fourier transform with respect to space variable are applied to solve the problem.Expressions of stresses,conductive temperature in the transformed domain are obtained.The numerical inversion technique is used to obtain the solution in physical domain.Graphic representations due to response of two temperature and changes of inclination are shown.Some particular cases are also discussed.

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