

Solution of boundary problems of general dynamics of the coupled theory of foroelasticity

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Boundary value problems of the general dynamics of the coupled theory of phoroelasticity are considered for an isotropic elastic disk. Using the Laplace transform, these problems are reduced to pseudo-oscillatory boundary value problems the solutions of which are represented explicitly as absolutely and uniformly converging series. Conditions are given for existence of inverse transformations that provide solutions for the initial problems.

forodrekadobis bmuli Teoriis dinamikis
sasazRvro amocanebis amoxsna

ivane cagareli

ganixileba forodrekadobis bmuli Teoriis zogadi dinamikis sasazRvro amocanebi izotropuli drekadi wrisaTvis. aRniSnuli amocanebi drois mimarT laplasis gardaqmnis gamoyenebiT dayvanilia fsevdorxevis amocanebze, romelTa amonaxsnebi warmodgenilia cxadi saxiT absoluturad da Tanabrad krebadi mwkrivebiT. dawerilia pirobebi, romelTaTvisac Sebrunebuli gardaqmna arsebobs da iZleva Tavdapirveli amocanebis amonaxsns.