

A Semi-Group of Contractions in Elasticity of Microstretch Materials

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Suggestions

Our study is dedicated to mixed initial-boundary value problem in elastodynamic theory of microstretch bodies. This problem is transformed in an abstract temporally evolutionary equation in a Hilbert space. Then, using some results from the theory of semigroups of linear operators we deduce the existence and uniqueness of solution. In the same manner, the continuous dependence of the solutions upon initial data and supply terms is also proved.

Keywords: ELASTICITY; EVOLUTIONARY EQUATIONS; MICROSTRETCH; SEMI-GROUP OF CONTRACTIONS

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