

Abstract

In this work, the uniqueness of solutions for the backward in time problem of the linear theory of thermo-microstretch elastic materials is shown and the impossibility of the localization in time of the solution of the corresponding forward in time problem is proved. Moreover, the temporal behavior backward in time of thermoelastodynamics processes is studied by establishing the relations describing the asymptotic behavior of the Cesàro means of the different parts of the total energy.