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BUCKLING OF NON-UNIFORMLY HEATED DAMAGING ROD

Abstract

*On basis of modified relation of one dimensional thermoelasticity for damaging medium, the carrying capacity loss process at unchangeable loading of rod for linear changing by thickness of level of supernormal temperature is investigated. The system of integro-differential equations relative to the amplitude of deflection (for hingly supported rod) and heights of unloading and loading domains of cross-section is obtained. The quantitative analysis is introduced.*