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EXACT SOLUTIONS OF QUASIELASTIC
PROBLEMS OF LINEAR THEORY OF
VISCOELASTICITY AND NONLINEAR THEORY
OF V.V.MOSKVITIN VISCOELASTICITY FOR
MECHANICALLY INCOMPRESSIBLE BODIES

Abstract

In the paper we cite theorems that by fulfilling the condition of mechanical incompressibility of a material reduce the problem of nonlinear theory of viscoelasticity with V.V.Moskvitin determining equations to the problem of physically nonlinear theory of elasticity of rheonomical bodies. Under the noted condition the represented theorems allow to reduce the problem on linear theory of viscoelasticity to the appropriate problem of elasticity theory. The suggested theorems are illustrated on an example of problems.