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A thermodynamic theory of solid viscoelasticity. Part I: Linear viscoelasticity A. D. Freed NASA Glenn Research Center, Polymers Branch, MS 49-3, 21 0000 BrookDark Road, Brook Park, Ohio 44135, USA A. I. Leonovâ€™™ The University ofAkron, Department of Polymer Engineering, Akron, Ohio 44325-0301, USA Abstract The present series of three consecutive papers develops a general theory for linear ...

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imposed on the general formulation of the nonlinear theory of solid viscoelasticity. Finally, we discuss specific (known from the literature or new) expressions for material functions that are involved in the constitutive formulations of both the rubber-like and glassy-like, complementary parts of the theory.

A thermodynamic theory of solid viscoelasticity. Part

ENGINEERING VISCOELASTICITY David Roylance Department of Materials Science and Engineering
Massachusetts Institute of Technology Cambridge, MA 02139

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