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II. Techniques and Basic Principles of Measurements III. Viscosity of Fluids; IV. Plasticity; Nomenclature; Chapter 9. Theories of Viscosity; I. Introduction; II. Molecular Theory of Liquids; III. The Rate of Process Theory of Flow; IV. Diffusion Methods; V. Comparison of the Formulas; VI. Effects of Molecular Structure; Nomenclature; Chapter 10. Large Elastic Deformations; I. Introduction; II. Kinematics of Finite Deformation; III. The Strain-Energy Function; IV. The Strain-Energy Function for Small but Finite Deformations; V. Fundamental Mechanical Considerations
VI. The Solution of Problems Involving Large Elastic Deformations VII. The Superposition of Small Deformations of Large Deformations; VIII. The Solution of Problems in Second-Order Elasticity Theory; IX. Experimental Verification of the Theory; Nomenclature; Chapter 11. Dynamics of Viscoelastic Behavior; I. Introduction; II. Properties of Viscoelastic Materials; III. Properties of Viscoelastic Objects when the Distributed Inertia of the Medium is Neglected; IV. Vibrations and Waves in Viscoelastic Objects; V. The Kinetic Theory of Rubber Elasticity; Nomenclature; Chapter 12. Viscosity Relationships for Polymers in Bulk and in Concentrated Solution

Sommario/riassunto

Rheology V1
