



# **Rheology and Processing of Polymeric Materials: Volume 1: Polymer Rheology**

*Chang Dae Han*

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# Rheology and Processing of Polymeric Materials: Volume 1: Polymer Rheology

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## **Rheology and Processing of Polymeric Materials: Volume 1: Polymer Rheology** Chang Dae Han

Volume 1 presents first fundamental principles of the rheology of polymeric fluid including kinematics and stresses of a deformable body, the continuum theory for the viscoelasticity of flexible homogeneous polymeric liquids, the molecular theory for the viscoelasticity of flexible homogeneous polymeric liquids, and the experimental methods for the measurement of the rheological properties of polymeric liquids. The materials presented are intended to set a stage for the subsequent chapters by introducing the basic concepts and principles of rheology, from both phenomenological and molecular perspectives, of structurally simple flexible and homogeneous polymeric liquids. Next, this volume presents the rheological behavior of structurally complex polymeric materials including miscible polymer blends, block copolymers, liquid-crystalline polymers, thermoplastic polyurethanes, immiscible polymer blends, particulate-filled polymers, organoclay nanocomposites, molten polymers with dissolved gas, and thermosts.

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