



Viscometric Flows of Non-Newtonian Fluids: Theory and Experiment (Springer Tracts in Natural Philosophy)

Bernard D. Coleman, Hershel Markovitz, W. Noll

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We here attempt to give a complete but concise treatment of the theory of steady viscometric flows of simple (non-Newtonian) fluids and to use that theory to discuss the design and interpretation of experiments. We are able to present the theory with less mathematical machinery than was used in our original papers, partly because this Tract has more limited aims than those papers, and partly because we employ a method, found by Noll and published here for the first time, for dealing with viscometric flows without the apparatus of relative Cauchy-Green tensors and reduced constitutive equations. To make the theory accessible to students not familiar with modern mathematics, we have added to our Tract an appendix explaining some of the mathematical concepts essential to continuum physics. Pittsburgh, July 1965 BERNARD D. COLEMAN
HERSHEL MARKOVITZ WALTER NOLL CONTENTS I. Introduction page 1. Limitations of the Classical Theory of Navier and Stokes. 1 5 2. Incompressible Simple Fluids. 3. Plan and Scope of this Monograph 7 II. Theory of Incompressible Simple Fluids 4. Kinematics. 10 5. The Dynamical Equations 12 6. The Principle of Material Objectivity 14 7. The Definition of an Incompressible Simple Fluid . 17 8. Static Behavior of Simple Fluids 19 III. General Theory of Viscometric Flows 9. The Kinematics of Simple Shearing Flow 21 10. The Viscometric Functions 22 11. The Dynamics of Simple Shearing Flow; Viscosity 26 12. The Definition of a Viscometric Flow 29 13. Curvilinear Flows. 30 1. Kinematical Description

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