

*Liquid
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Ordered
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*Edited by
Anselm C. Griffin and Julian F. Johnson*

Ordered Fluids Liquid Crystals

André M. Sonnet, Epifanio G. Virga



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Liquid Crystals and Ordered Fluids Anselm C. Griffin, 2012-12-06 This volume represents a collection of selected papers presented at a symposium of the same name sponsored by the Division of Colloid and Surface Chemistry held at the national Spring meeting of the American Chemical Society in Las Vegas Nevada March 29 April 1 1982 Also included are invited papers from a number of outstanding overseas liquid crystal scientists who were unable to attend the symposium The attendance at the symposium itself and the number of papers contained herein is reflective of the high level of current interest in and maturity of the field of liquid crystal research Included in this volume are papers mainly derived from the fields of chemistry and physics ranging in content from the design and synthesis of new mesogenic materials to theoretical physical treatments of anisotropic liquids One of the significant aspects of current liquid crystal research is the increasing collaboration between chemist and physicist The overlap of these two areas has been growing over the last several years and many contributions to this volume involve a molecular approach to the chemical physics of liquid crystalline materials

Liquid Crystals and Ordered Fluids Julian F. Johnson, American Chemical Society. Division of Colloid and Surface Chemistry, Symposium on Ordered Fluids and Liquid Crystals (2, 1969, New York, NY), 1974 Liquid Crystals and Ordered Fluids Julian F. Johnson, Roger S. Porter, 2012-12-06 This volume contains papers presented at the Second Symposium on Ordered Fluids and Liquid Crystals held at the 158th National Meeting of the American Chemical Society New York September 1969 The Symposium was sponsored by the Division of Colloid and Surface Chemistry The proceedings for the first symposium on this subject were published by the American Chemical Society in the Advances in Chemistry Series In the preface to the volume for the first meeting held four years ago we noted that research on liquid crystals had gone through tremendous fluctuations with peaks of activity around 1900 and again in the early 1930s The present period of high activity which started about 1960 has continued to exhibit acceleration The reason for the persistent growth in the field is due to the increasing recognition of the important role played by liquid crystals in both biological systems and in items of commerce as diverse as detergents and electronic components Additionally more powerful and sophisticated instrumentation is providing a basis for understanding the properties of the liquid crystalline state as well as yielding incisive tests for the theories of mesophase structure which are only now reaching a state of maturity Julian F Johnson Roger S Porter v CONTENTS Thermal Phase Transitions in Biomembranes 1 Joseph M Steim Conditions of Stability for Liquid Crystalline Phospholipid Membranes

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nematic liquid crystals in both their chiral and nonchiral variants The authors begin by giving a detailed account of the molecular origins of orientational order in fluids They then go on to develop a general framework in which continuum theories for ordered fluids can be phrased Within this unified setting they cover both well established classical theories and new ones with aspects that are not yet completely settled The book treats a wide range of hydrodynamic theories for liquid crystals from the original 1960s works by Ericksen and Leslie to new fast developing ideas of liquid crystal science The final chapter is devoted to nematoacoustics and its applications Old experiments on the propagation of ultrasound waves in nematic liquid crystals are interpreted and explained in the light of a new theory developed within the general theoretical infrastructure proposed in the body of the book This book is intended both for graduate students and professional scholars in mathematics physics and engineering of advanced materials It delivers a solid framework for liquid crystal hydrodynamics and shows the unifying concepts at the basis of the classical theories It illustrates how these concepts can also be applied to a wide variety of modern topics Andre M Sonnet is in the Department of Mathematics and Statistics at the University of Strathclyde Glasgow Scotland and Epifanio G Virga is in the Department of Mathematics at the University of Pavia Italy They have a long history of working together in liquid crystal science and have contributed in particular to the theories of defects and biaxial nematics **Liquid Crystals and Ordered Fluids**, 1970 Liquid Crystals and Ordered Fluids Anselm C.

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