

Rigid Chain Polymers: Hydrodynamic and Optical Properties in Solution (Macromolecular Compounds)

Tsvetkov, V.N.

Note: This is not the actual book cover

Rigid Chain Polymers Hydrodynamic And Optical Properties In Solution

Tuan Q. Nguyen, Hans-Henning Kausch



Rigid Chain Polymers Hydrodynamic And Optical Properties In Solution:

Rigid-Chain Polymers V.N. Tsvetkov,1989-02-28 Translated from the Russian this study deals with hydrodynamic dynamo optical and electro optical properties of rigid chain polymers in dilute solutions Specific topics include the theory and experimental data of hydrodynamic properties and flow birefringence as well as a study of electric biref *Molecular Characterization of Polymers* Muhammad Imran Malik,Jimmy Mays,Muhammad Raza Shah,2021-03-09 Molecular Characterization of Polymers presents a range of advanced and cutting edge methods for the characterization of polymers at the molecular level guiding the reader through theory fundamentals instrumentation and applications and supporting the end goal of efficient material selection and improved material performance Each chapter focuses on a specific technique or family of techniques including the different areas of chromatography field flow fractionation long chain branching static and dynamic light scattering mass spectrometry NMR X Ray and neutron scattering polymer dilute solution viscometry microscopy and vibrational spectroscopy In each case in depth coverage explains how to successfully implement and utilize the technique This practical resource is highly valuable to researchers and advanced students in polymer science materials science and engineering and to those from other disciplines and industries who are unfamiliar with polymer characterization techniques Introduces a range of advanced characterization methods covering aspects such as molecular weight polydispersity branching composition and tacticity Enables the reader to understand and to compare the available technique and implement the selected technique s with a view to improving properties of the polymeric material Establishes a strong link between basic principles characterization techniques and real life applications **Molecular and Colloidal Electro-optics** Stoyl P. Stoylov,Maria V. Stoimenova,2016-04-19 Molecular and Colloidal Electro Optics presents cohesive coverage from internationally recognized experts on new approaches and developments in both theoretical and experimental areas of electro optic science It comprises a well integrated yet multi disciplinary treatment of fundamental principles strategies and applications of electro op **Methods in Molecular Biophysics** Igor N. Serdyuk,Nathan R. Zaccai,Joseph Zaccai,2007-03-29 Our knowledge of biological macromolecules and their interactions is based on the application of physical methods ranging from classical thermodynamics to recently developed techniques for the detection and manipulation of single molecules These methods which include mass spectrometry hydrodynamics microscopy diffraction and crystallography electron microscopy molecular dynamics simulations and nuclear magnetic resonance are complementary each has its specific advantages and limitations Organised by method this textbook provides descriptions and examples of applications for the key physical methods in modern biology It is an invaluable resource for undergraduate and graduate students of molecular biophysics in science and medical schools as well as research scientists looking for an introduction to techniques beyond their specialty As appropriate for this interdisciplinary field the book includes short asides to explain physics aspects to biologists and biology aspects to physicists **Flexible Polymer Chains in Elongational Flow** Tuan Q.

Nguyen,Hans-Henning Kausch,2012-12-06 The behavior of polymer solutions in simple shear flows has been the subject of considerable research in the past On the other hand reports on polymers in elongational flow have appeared comparatively recently in the literature Elongational flow with an inherent low vorticity is known to be more effective in extending polymer chains than simple shear flow and thus is more interesting from the point of view of basic molecular chain dynamics at high deformation and applied polymer science rheology fiber extrusion drag reduction flow through porous media Undoubtly one landmark in the field of polymer dynamics in elongational flow was the notion of critical strain rate for chain extension initially put forward by A Peterlin 1966 and later refined into the coil stretching transition by P G de Gennes and H Hinch 1974 In the two decades which followed significant progress in the understanding of chain conformation in strong flow has been accomplished through a combination of advances in instrumentation computation techniques and theoretical studies As a result of the multidisciplinary nature of the field information on polymer chains in strong flow is accessible only from reviews and research papers scattered in disparate scientific journals An important objective of this book is to remedy that situation by providing the reader with up to date knowledge in a single volume The editors therefore invited leading specialists to provide both fundamental and applied information on the multiple facets of chain deformation in elongational flow

Liquid Crystalline Order in Polymers Alexandre Blumstein,2012-12-02 Liquid Crystalline Order in Polymers examines the topic of liquid crystalline order in systems containing rigid synthetic macromolecular chains Each chapter of the book provides a review of one important area of the field Chapter 1 discusses scattering in polymer systems with liquid crystalline order It also introduces the field of liquid crystals Chapter 2 treats the origin of liquid crystalline order in macromolecules by describing the in depth study of conformation of such macromolecules in their unassociated state The chapters that follow describe successively the liquid crystalline order in polymers with mesogenic side groups and rigid backbones in polypeptides and in block copolymers Chapter 7 discusses the rheology of such systems The last two chapters examine liquid crystalline order in biological materials and mesomorphic order in the realm of polymers with inorganic backbones This book is intended to provide the polymer scientist the materials scientist and the biologist with a valuable source of information

Advances in Liquid Crystal Research and Applications Lajos Bata,2013-10-22 Advances in Liquid Crystal Research and Applications Volume 2 covers the proceedings of the Third Liquid Crystal Conference of the Socialist Countries The book discusses several papers concerning the development and advancement of the research and application aspects of liquid crystals The text is comprised of 52 chapters that are organized into four parts explaining an aspect of liquid crystal Part I covers amphiphilic while Part II discusses mesomorphic polymers The third part tackles synthesis and the fourth part talks about the physical properties and applications The book will be of great use to researchers and professionals whose line of work concerns liquid crystals

Seymour/Carraher's Polymer Chemistry Charles E. Carraher Jr.,2003-04-30 This revolutionary and best selling resource contains more than 200 pages of additional information

and expanded discussions on zeolites bitumen conducting polymers polymerization reactors dendrites self assembling nanomaterials atomic force microscopy and polymer processing This exceptional text offers extensive listings of laboratory exercises and demonstrations web resources and new applications for in depth analysis of synthetic natural organometallic and inorganic polymers Special sections discuss human genome and protonics recycling codes and solid waste optical fibers self assembly combinatorial chemistry and smart and conductive materials *Cellulose Chemistry and Technology* ,1995

Polymer Science U.S.S.R ,1988

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