

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

Tsvetkov, V.N.

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Rigid Chain Polymers Hydrodynamic And Optical Properties In Solution

Hans-Georg Elias



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 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 *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 *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. Undoubtedly 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.

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.

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.

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

Polyamic Acids and Polyimides Michael I. Bessonov, Vladimir A. Zubkov, 2020-11-25 Polyamic Acids and Polyimides surveys significant developments in basic research in the chemistry and physics of polyamic acids and polyimides over the last several years Traditional and new topics are discussed including catalytical imidization chemical reactions at thermal treatment quantum chemical study of synthesis and structure properties of isolated molecules and supermolecular and crystalline structures The book will be an excellent reference for researchers practitioners and graduate students working with polyimides and related heat resistant polymers and materials

Polymer Science U.S.S.R, 1988 **Cellulose Chemistry and Technology**, 1995 **New Technical Books** New York Public Library, 1989 **Polymeric Liquid**

Crystals Alexandre Blumstein, 2013-06-29 This book originated in the Proceedings of the Second Symposium on Polymeric Liquid Crystals held by the Division of Polymer Chemistry in the framework of the 1983 Fall Meeting of the American Chemical Society At the First Symposium in 1977 the literature in this field could be encompassed in a single volume To day that is no longer possible The field of Polymeric Liquid Crystals grew and continues to grow at a very rapid pace At present we know of every major mesophase in its polymeric form and of polymeric glasses elastomers and fluids in their liquid crystalline form Every year new polymeric mesophases are being discovered The aim of this book is to go beyond a compilation of papers presented at the 1983 ACS Fall Meeting It is conceived as a learning tool for the benefit of the scientist interested in Polymeric Liquid Crystals The book is divided into three sections The first section contains articles discussing synthetic physico chemical structural and rheological aspects of Polymeric Liquid Crystals in their generality A chapter on methods currently used in this field is also included There are also chapters on theoretical and classification aspects of PLCs These self contained tutorial chapters provide an introduction to this field as well as to the specific papers given in the book They provide an exhaustive cover age of literature on the subject from its inception to the present

Principles of Polymer Systems Ferdinand Rodriguez, 1989 Organized to present the subject clearly to a person with no prior knowledge of polymer systems Serves also as a broadening tool for scientists and engineers with partial experience in the field New edition has added more than 300 general references and over 35 original problems Annotation copyrighted by Book News Inc Portland OR Makromoleküle Hans-Georg Elias, 2009-08-19 L ngst ein Klassiker Kein anderes deutschsprachiges Werk ber Makromolek le erscheint bereits in der sechsten Auflage Mit Band 2 liegt nun eine zeitgem e Behandlung der phsikalischen Eigenschaften von Makromolek len vor Er schildert in seinem ersten Teil die Struktur isolierter Molek le und die zur Strukturaufkl rung verwendeten Verfahren bevor dann Mikro und Makrokonformationen von

Makromoleküle beschrieben werden. Der zweite Teil befasst sich mit der physikalischen Struktur von Molekülen in amorphen Zuständen, Schmelzen und konzentrierten Lösungen im kristallinen Zustand, in Mesophasen sowie in und an Grenzflächen. Bevor im dritten Teil Makromoleküle in Lösungen diskutiert werden, Teil vier ist dann den Schmelzen und ihren Eigenschaften gewidmet. Teil fünf behandelt die mechanischen Eigenschaften polymerer Festkörper wie Elastizität, Viskoelastizität und Bruchverhalten. Auch in diesem Band stehen eine nicht zu elementare Darstellung des Stoffes und die integrierende Behandlung von Chemie, Physik, Biologie und Technologie im Vordergrund, die von einem breiten Leserkreis geschätzt werden.

Phenomenology of Polymer Solution Dynamics George D. J. Phillies, 2011-10-06 Presenting a completely new approach to examining how polymers move in non dilute solution, this book focuses on experimental facts not theoretical speculations and concentrates on polymer solutions not dilute solutions or polymer melts. From centrifugation and solvent dynamics to viscosity and diffusion, experimental measurements and their quantitative representations are the core of the discussion. The book reveals several experiments never before recognized as revealing polymer solution properties. A novel approach to relaxation phenomena accurately describes viscoelasticity and dielectric relaxation and how they depend on polymer size and concentration. Ideal for graduate students and researchers interested in the properties of polymer solutions, the book covers real measurements on practical systems including the very latest results. Every significant experimental method is presented in considerable detail, giving unprecedented coverage of polymers in solution.

Polymer Pioneers Peter J. Morris, 2005-06 Accompanied by an introductory overview of the history of polymer science, this book contains biographical sketches of 12 pioneers from Marcellin Berthollet and John Wesley Hyatt to Karl Ziegler and Giulio Natta. It also includes time charts before each chapter that summarise significant events.

Dipole Moments and Birefringence of Polymers Evaristo Riande, Enrique Saiz, 1992 A guide to the prediction of the physical properties of polymers having known chemical structures. Covering the basis of dipole moments and birefringences as general techniques, it reviews key research work performed in the field.

Organized Structures in Polymer Solutions and Gels Charles Gilbert Overberger, Blahoslav Sedláček, International Union of Pure and Applied Chemistry, 1974

Macromolecules, Volume 3 Hans-Georg Elias, 2005 Providing a broad survey of the entire field, *Macromolecules* integrates representations of chemistry, physics and technology as well as including precise descriptions of basic phenomena and balanced treatments of facts and theory.

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