



Comb Shaped Polymers And Liquid Crystals

N.A. Platé, V.P. Shibaev



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Comb-Shaped Polymers and Liquid Crystals N.A. Platé, V.P. Shibaev, 2012-12-06 **Liquid-Crystal Polymers** N.A. Platé, 2013-11-11 Drawing a picture of the current situation of this new field this volume both summarizes the past achievements and analyzes the present unsolved problems **Polymer Science: A Comprehensive Reference**, 2012-12-05 The progress in polymer science is revealed in the chapters of Polymer Science A Comprehensive Reference Ten Volume Set In Volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films Volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods Volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins ROMP as well as to various less common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by

integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner *Compendium of Polymer Terminology and Nomenclature* Richard G Jones, Edward S Wilks, W. Val Metanowski, Jaroslav Kahovec, Michael Hess, Robert Stepto, Tatsuki Kitayama, 2009-01-19 The IUPAC system of polymer nomenclature has aided the generation of unambiguous names that reflect the historical development of chemistry However the explosion in the circulation of information and the globalization of human activities mean that it is now necessary to have a common language for use in legal situations patents export import regulations and environmental health and safety information Rather than recommending a unique name for each structure rules have been developed for assigning preferred IUPAC names while continuing to allow alternatives in order to preserve the diversity and adaptability of nomenclature *Compendium of Polymer Terminology and Nomenclature* is the only publication to collect the most important work on this subject into a single volume It serves as a handy compendium for scientists and removes the need for time consuming literature searches One of a series issued by the International Union of Pure and Applied Chemistry IUPAC it covers the terminology used in many and varied aspects of polymer science as well as the nomenclature of several different types of polymer including regular and irregular single strand organic polymers copolymers and regular double strand ladder and spiro organic polymers *Compendium of Polymer Terminology and Nomenclature* International Union of Pure and Applied Chemistry. Commission on Macromolecular Nomenclature, Richard G. Jones, 2009 *Compendium of Polymer Terminology and Nomenclature* is the only publication to collect the most important work on preferred IUPAC names into a single volume It serves as a handy compendium for scientists and removes the need for time consuming literature searches

Introduction to Physical Polymer Science Leslie H. Sperling, 2015-02-02 An Updated Edition of the Classic Text Polymers constitute the basis for the plastics rubber adhesives fiber and coating industries The Fourth Edition of *Introduction to Physical Polymer Science* acknowledges the industrial success of polymers and the advancements made in the field while continuing to deliver the comprehensive introduction to polymer science that made its predecessors classic texts The Fourth Edition continues its coverage of amorphous and crystalline materials glass transitions rubber elasticity and mechanical behavior and offers updated discussions of polymer blends composites and interfaces as well as such basics as molecular weight determination Thus interrelationships among molecular structure morphology and mechanical behavior of polymers continue to provide much of the value of the book Newly introduced topics include Nanocomposites including carbon nanotubes and exfoliated montmorillonite clays The structure motions and functions of DNA and proteins as well as the interfaces of polymeric biomaterials with living organisms The glass transition behavior of nano thin plastic films In addition new sections have been included on fire retardancy friction and wear optical tweezers and more *Introduction to Physical Polymer Science* Fourth Edition provides both an essential introduction to the field as well as an entry point to the latest research and developments

in polymer science and engineering making it an indispensable text for chemistry chemical engineering materials science and engineering and polymer science and engineering students and professionals **Side Chain Liquid Crystal Polymers** C.

B. McArdle,1989 **Liquid Crystal Polymers: From Structures to Applications** A.A. Collyer,1992-12-31 This study describes the nature of LCPs their syntheses characterization properties and finally their application It discusses the way in which liquid crystallinity or mesomorphism occurs in small molecules monomer liquid crystals and polymer liquid crystals

Liquid Crystals: Chemistry, Physics, and Applications ,2002 Properties of Polymers D.W. van Krevelen,Klaas te Nijenhuis,2009-02-09 This authoritative widely cited book has been used all over the world Properties of Polymers Fourth Edition incorporates the latest developments in the field while maintaining the core objectives of previous editions to correlate properties with chemical structure and to describe methods that permit the estimation and prediction of numerical properties from chemical structure i e nearly all properties of the solid liquid and dissolved states of polymers Extends coverage of critical topics such as electrical and magnetic properties rheological properties of polymer melts and environmental behavior and failure Discusses liquid crystalline polymers across chapters 6 15 and 16 for greater breadth and depth of coverage Increases the number of supporting illustrations from approximately 250 in the previous edition to more than 400 to further aid in visual understanding **Liquid Crystals: Materials Science and Applications** Józef Žmija,1995

Liquid Crystalline and Mesomorphic Polymers Valery P. Shibaev,Lui Lam,2012-12-06 Among the various new directions in modern polymer science the design and investigation of liquid crystal LC polymers have been the ones growing most actively and fruitfully In spite of that the possible formation of an anisotropic LC phase was only demonstrated theoretically for the first time in the 1950s by Onsager 1 and Flory 2 and then experimentally verified in the studies with polypeptides solutions In essence the studies of these LC lyotropic systems did not deviate from the theme of purely academic interest It was at the beginning of the 1970s that the experimental explosion occurred when aromatic polyamides were synthesized and their ability to form LC solutions in certain very aggressive solvents was discovered The search for practical applications of such LC systems was crowned with the successful creation of the new generation of ultrastrong high modulus thermotropic fibers such as the Kevlar due to the high degree of order of the macromolecules in the anisotropic LC state In fact these investigations coincided with the swift emergence on the practical scene of thermotropic low molar mass liquid crystals with the use of these materials in microelectronics and electro optics figures and liquid crystal displays in personal computers and flat TV etc Polymer scientists also began to develop methods of synthesizing thermotropic LC polymers by incorporating mesogenic fragments in the main chain LC polymers or side branchings of the macromolecules side chain or comb shaped polymers **Soviet Physics, Crystallography** ,1988 Polymer Science ,2001 Seymour/Carraher's Polymer Chemistry Raymond Benedict Seymour,Charles E. Carraher (Jr.),1996 Continuing in the tradition of excellence set by prior editions this completely updated and enlarged Fourth Edition of Seymour Carraher s Polymer Chemistry helps students

expand their knowledge of general organic analytical and physical chemistry presenting a holistic approach to inorganic synthetic and biological polymers The Fourth Edition covers important topics of current interest in polymer science including DNA profiling recycling codes smart materials liquid crystals ionomers composites dendrites soluble stereoregulating catalysis additives monomer synthesis kinetics polyethylene high performance materials molecular weight concepts and more

The Cumulative Book Index ,1989 A world list of books in the English language Optical and Quantum-structural Properties of Semiconductors Teiji Tsuruta,1993 **Il Nuovo Cimento Della Società Italiana Di Fisica** ,1990 *Reports on Progress in Polymer Physics in Japan* ,1991 Papers Presented at the ... Meeting American Chemical Society. Division of Polymer Chemistry,1999

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