

NEW CONCEPTS IN POLYMER SCIENCE

Structure of the Polymer Amorphous State

G.V. Kozlov and G.E. Zaikov



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Structure Of The Polymer Amorphous State

LinShu Liu, Gennadii Efremovich Zaikov

Structure Of The Polymer Amorphous State:

Structure of the Polymer Amorphous State Kozlov, Gennady Zaikov, 2004-02-01 The basic problem of polymer physics is obtaining a structure properties correlations for their future application for practical purposes However these cannot be obtained without the development of a quantitative model of the polymer structure This problem has been actively investigated during the last 45 years Order in the Amorphous "State" of Polymers Steven E. Keinath, Robert L. Miller, James K. Rieke, 2012-12-06 In 1975 a symposium was held in Midland Michigan co sponsored by the Dow Chemical Company and the then Midland Macromolecular Institute in honor of Raymond F Boyer on the occasion of his 65th birthday and retirement from Dow The topic of that first Boyer symposium dealt with an area of interest to Boyer namely polymer transitions and relaxations One decade later after ten years of additional fruitful scientific endeavor at MMI Ray Boyer was again honored with a symposium this time celebrating his 75th birthday and 10th anniversary at the Michigan Molecular Institute The topic of the second Boyer symposium in 1985 was somewhat more focused this time concentrating on the subject of order or structure in the amorphous state of polymers and the attendant polymer transitions that are observed This volume contains the full manuscripts of the contributors to the 17th MMI International Symposium held in Midland Michigan on August 18 21 1985 Eleven one hour plenary lectures and ten 20 minute contributed papers were presented during the Symposium An open forum panel discussion was also scheduled the edited transcript of that session is included at the end of this volume One of our tasks in organizing this Symposium was to attempt to gather together a number of speakers who would be able to define what if any physical structure might be present in anwrplwus polymers and what the nature of this order might be *Physical Structure of the Amorphous State* Geoffrey Allen, Sarah Elaine B. Petrie, 1977

Structure of the Polymer Amorphous State Kozlov, Gennady Zaikov, 2004-02-01 The basic problem of polymer physics is obtaining structure properties correlations for their future application for practical purposes However these cannot be obtained without the development of a quantitative model of the polymer structure This problem has been actively investigated during the last 45 years which resulted in obtaining a great amount of experimental mostly indirect proofs of existence of the local order in the polymer amorphous state Now the time has come for creating a structural model of polymer basing based on the local order ideas The cluster model as presented in this monograph of the polymer amorphous state structure represents the realization of such attempts The development of this cluster model is based on well known experimental observation the behavior of glassy polymers in the area of stimulated high elasticity plateau is described in the framework of rubber elasticity concepts This gives an opportunity to present the local order cluster zone as a multifunctional entanglement of the physical network consisting of several collinear closely packed segments of different macromolecules the amorphous analogue of crystallite with extended chains and surrounded by a packless matrix An independent method for assessing local order zone fraction in the structure has been elaborated Segment length in the cluster equals the length of the chain statistical segment

that gives a correlation between molecular and structural parameters of the polymer Application of the cluster model allowed description and obtaining of analytical structure properties correlations for many processes proceeding in polymers elasticity yielding degradation transport some thermodynamic processes structural relaxation plasticization structural stabilization at thermo oxidative degradation etc The relation between the cluster model and some modern physical concepts for instance fractal analysis fluctuation free volume kinetic theory percolation theory irreversible colloidal aggregation models are outlined A separate chapter is devoted to the features of formation and control of the relative part of local order zones in non crystalline domains of semi crystalline polymers and their connection to the structure of crystallites

The Structural Stabilization of Polymers: Fractal Models Kozlov,Gennady Zaikov,2006-07-01 This monograph deals with the structural aspects of transport processes of gases physical ageing and thermo oxidative degradation of polymers in detail Fractal analysis cluster models of the polymer structure a s amorphous state as well as irreversible aggregation models are used as main structural models It is shown that the polymer structure *Structure and Properties of Crosslinked Polymers* Gasan M Magomedov,2011-03-23 This book gives a fresh point of view on the curing processes structure and properties of crosslinked polymers The general view is that the structure and properties of crosslinked polymers are defined by their density this book demonstrates that the parameters are defined by the supermolecular a more precisely supersegmental structure of the crosslinked polymers The quantitative relationships of the structures properties are obtained for these polymers Using an epoxy polymer as a nanofiller for a nanocomposite is discussed and a new class of polymer is proposed The introduction of the nanofiller gives variation in the mechanical properties degree of crystallinity gas permeability and so on The use of these crosslinked polymers as natural nanocomposites is proposed Practical methods of crosslinked polymer s supersegmental structure regulation are considered and all the changes that this gives their properties are detailed This book will be of significance to all material scientists and students of material science **Fractal Mechanics of Polymers** G. V. Kozlov,Yu G. Yanovskii,2014-11-12 This new book explores the consideration of relationships that connect the structural and basic mechanical properties of polymeric mediums within the frameworks of fractal analysis with cluster model representations attraction Incidentally the choice of any structural model of medium or their combinations is defined by expediency and further usag *Step-Growth Polymerization Process Modeling and Product Design* Kevin Seavey,Y. A. Liu,2009-04-22 Understand quantitative model step growth polymerization plans and how to predict properties of the product polymer with the essential information in Step Growth Polymerization Process Modeling and Product Design If you want to learn how to simulate step growth polymerization processes using commercial software and seek an in depth quantitative understanding of how to develop use and deploy these simulations consult this must have guide The book focuses on quantitative relationships between key process input variables KPIVs and key process output variables KPOVs and the integrated modeling of an entire polymer manufacturing train *Materials Behavior* Mihai Ciocoiu,2018-06-26 The development of

advanced materials has become extremely important in the last decade being widely used in academic and industrial research. This book examines the potential of advanced materials as well as nanotechnology to improve fiber science from fibril to fabric mode to create better materials and products for a variety of aspects. The book presents research advances in materials behavior using fractal analysis, mathematical modeling and simulation and other methods. Examined are electrical, mechanical, optical and magnetic properties, size, morphology and chemical behavior of such materials as aerogels, polymer films, nanocomposite materials, natural composites, catalysis and more, with a view to their application in the medical, engineering and textile fields. With chapters written by eminent scientists, the book offers valuable information for academics, researchers and engineering professionals. Contributions range from new methods to novel applications of existing methods to help readers gain understanding of the material and/or structural behavior of new and advanced systems.

Fundamentals of Polymer Science for Engineers Stoyko Fakirov, 2017-07-19 Dieses Lehrbuch führt eine Lücke und ist eine prägnante, gründliche Einführung in die Polymerwissenschaften für Studenten der Ingenieurwissenschaften in höheren Semestern sowie für Praktiker. Der Schwerpunkt liegt auf den chemischen und physikalischen Aspekten sowie auf Aspekten der Materialwissenschaften, die für ingenieurtechnische Anwendungen von hoher Relevanz sind. Nach Erläuterungen zur Polymer-Synthese und den zugehörigen Eigenschaften beschäftigt sich das Buch überwiegend mit polymeren Werkstoffen wie thermoplastischen Kunststoffen und Polymerverbundwerkstoffen der Polymerverarbeitung z.B. Spritzguss und Extrusionsverfahren und Methoden zur Charakterisierung von Polymeren in großem Umfang. Das Buch schließt mit einem Überblick über technische Kunststoffe. Der Schwerpunkt liegt durchgängig auf anwendungsrelevanten Themen und der Autor konzentriert sich auf polymere Werkstoffe, die in der Praxis für die Industrie relevant sind.

Chemistry as Art LinShu Liu, Gennadij Efremovich Zaikov, 2005 It can be said that in the fundamental understanding of the inner mechanisms of chemical processes the virtuosity of application of certain investigatory methods to disclose the process mechanisms is true art. This new and unique presentation offers such a collection of papers.

Plastics Fundamentals, Properties, and Testing Manas Chanda, Salil K. Roy, 2008-07-18 Derived from the fourth edition of the well known Plastics Technology Handbook, Plastics Fundamentals, Properties and Testing covers the behavior, characterization and evaluation of polymers. With a lucid **Plastics Technology Handbook** Manas Chanda, 2017-11-07 Updated throughout to reflect advances over the last decade, the Fifth Edition continues the handbook's tradition of authoritative coverage of fundamentals, production methods, properties and applications of plastics and polymer based materials. It covers tooling for plastics fabrication processes, thermoplastics, thermosetting plastics, foamed plastics, reinforced plastics, plastisols and new developments in mold design. It also discusses rubber compounding and processing technologies. More recent developments in polymer fabrication and processing including electrospinning, electrografted coating, polymer metal hybrid joining, flex printing and rapid prototyping, 3D printing are also presented. The handbook highlights advanced materials including natural and synthetic

gfnanosize polymers their unusual properties and innovative applications as well as polymer carbon nanocomposites graphene based polymer nanocomposites smart healable polymer composites smart polymer coatings electroactive polymers polymer nanomaterials and novel nano microfibrillar polymer composites It offers updates on polymer solar battery development plastics recycling and disposal methods new concepts of upcycling and single polymer composites renewable synthetic polymers biodegradable plastics and composites and toxicity of plastics The book also provides an overview of new developments in polymer applications in various fields including packaging building and construction corrosion prevention and control automotive aerospace applications electrical and electronic applications agriculture and horticulture domestic appliances and business machines medical and biomedical applications marine and offshore applications and sports

Fractal Analysis of Polymers G. V. Kozlov, Gennadii Efremovich Zaikov, V. U. Novikov, 2003 **Fractal Analysis of Polymers From Synthesis to Composites** **Structure and Dynamics of Bulk Polymers by NMR-Methods** Vladimir D.

Fedotov, Horst Schneider, 1989-05-11 In recent years the development of the NMR method has been closely linked to the creation of the theory of the NMR in solids and with the elaboration on their basic principles and methods of high resolution in solids The aim of this volume is to explain simply and clearly the principles for the understanding of the NMR in solid polymers to show what kind of information can be gained using NMR investigations of bulk polymers and to demonstrate the ways of obtaining this information their correctness and their place in comparison with other methods The discussion is restricted to the most important and typical nuclei ^1H ^{13}C and briefly $^{2\text{D}}$ and in connection with that to the dipolar and quadrupolar interaction and to the chemical shift

Colloid Chemistry of Polymers I \cdot U \cdot rii Sergeevich Lipatov, 1988 This book is a physical chemist's approach to polymers and as such takes a unique and intermediate position between physical and polymer chemistry Intended primarily as an introduction to the study of the subject it analyses the range of problems encompassed by the colloid chemistry of polymers with the aim of clarifying the most important advances and providing an overview of the general state of the art

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

The Solid State of Polymers Phillip Herbert Geil, Eric Baer, Yasaku Wada, 1974 [Introduction to Physical Polymer Science](#) Leslie Howard Sperling, 1992-08-05

Updated and revised it focuses on the role of molecular conformation and configuration in determining the physical behavior of polymers New features include the amorphous and crystalline states of polymers macromolecular hypothesis and historical development of photophysics and fluorescence thermodynamics of blending polymers and polymer polymer phase diagrams a discussion of rheology plus gelatinous materials and a variety of contemporary topics emphasizing surface interfacial and electrical behavior of polymers nonlinear optics and high temperature substances Each chapter includes several classroom demonstrations and problem sets

[Introduction to Polymer Chemistry, Second Edition](#) Charles E. Carraher Jr., 2010-01-12

With an emphasis on the environment and green chemistry and materials this second edition offers detailed coverage of natural and synthetic giant molecules inorganic and organic polymers elastomers adhesives coatings fibers plastics ceramics and more

Reviewing **Structure Of The Polymer Amorphous State**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Structure Of The Polymer Amorphous State**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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