

T. Kawakatsu

# Statistical Physics of Polymers

An Introduction



Springer

# Statistical Physics Of Polymers An Introduction

**Michael Seilmaier**



## **Statistical Physics Of Polymers An Introduction:**

**Statistical Physics of Polymers** Toshihiro Kawakatsu, 2013-03-09 This book is an introductory textbook on the statistical mechanics of polymers and complex fluids aimed at senior undergraduate and graduate students and non-specialist researchers who are starting research in this field Modern statistical mechanics on polymers and complex fluids is based on many fields such as chemical physics statistical mechanics quantum mechanics stochastic processes theory of phase transitions hydrodynamics rheology and so on This book provides an overview of the basic concepts and methods used in current research on the physics of polymers and complex fluids Using simple but essential examples we describe how to derive the physical properties of polymers theoretically focusing on the structure and dynamics on mesoscopic scales Here the term mesoscopic scales means intermediate lengths and time scales between the microscopic atomic scale and the macroscopic scale Properties on mesoscopic scales are the central issue of the physics of polymers and complex fluids because these materials are well characterized by spatiotemporal structures on these scales where we can extract universal properties that are independent of the microscopic details of the system *Statistical Physics of Macromolecules*, 1994 This text presents an introduction to the field of statistical physics of macromolecules from the basic concepts to modern achievements Applications in various fields of polymer physical chemistry and molecular biophysics are also covered as are the fundamentals of statistical theory of polymer solutions and melts classical scaling and renormalization group approaches the main ideas of statistical theories of polymer liquid crystals polymer networks and polyelectrolytes dynamic viscoelastic behavior of polymer systems models of Zimm and reptation concepts and specific features of main biopolymers DNA and proteins This English edition also includes sections describing the most important recent advances such as statistical theory of DNA gel electrophoresis polymers at interfaces and dynamics of concentrated solutions of rigid polymers

**Introduction to Path-integral Methods in Physics and Polymer Science** F W Wiegler, 1986-09-01 This monograph distills material prepared by the author for class lectures conferences and research seminars It fills in a much felt gap between the older and original work by Feynman and Hibbs and the more recent and advanced volume by Schulman After presenting an elementary account on the Wiener path integral as applied to Brownian motion the author progresses on to the statistics of polymers and polymer entanglements The next three chapters provide an introduction to quantum statistical physics with emphasis on the conceptual understanding of many variable systems A chapter on the renormalization group provides material for starting on research work The final chapter contains an overview of the role of path integrals in recent developments in physics A good bibliography is provided for each chapter Request Inspection Copy *Topics in Polymer Physics* Richard S. Stein, Joseph Powers, 2006 This important book emphasizes the basic derivation of many key equations used in polymer physics Phrases such as it can be easily shown that and it readily follows that seen in many textbooks are seldom used here The models assumptions and key equations underlying concepts are presented in the text details used in

the derivations are given in the accompanying CD Rom The CD Rom also contains problems with solutions in many cases which test the reader's grasp of the material as well as a glossary of symbols Contents Introduction Historical Background to Polymer Physics and Description of Polymer Physics Areas Chain Statistics The Chain Character of Polymers Modeled on Probability Considerations Lattice Theory of Blending Polymers Thermodynamics Classical and Statistical Thermodynamic Models Applied to Polymers Optics Scattering Diffraction Birefringence Applied to Polymers Electricity Electrical Background to Conducting Polymers Polarizability Spectroscopy Infrared Raman and Fourier Transform Infrared Spectroscopy Rubber Gaussian and Non Gaussian Models of Rubber Elasticity Crystallization Nucleation Growth and Crystalline Amorphous Models Polymer Crystal Morphology CD Rom Contents Orientation Techniques for Measuring Polymer Orientation Hermans Orientation Function Viscoelasticity Maxwell and Voigt Models of Polymer Viscoelasticity Readership Upper level undergraduates and graduate students in chemistry physics materials science and engineering scientists and engineers interested in polymers

**Introduction to Polymer Physics** Masao Doi, 1996 This book is a concise textbook on polymer physics for graduate students Researchers in physics physical chemistry and chemical engineers who are interested in complex fluids can also benefit from the book

**Introduction to Polymer Physics** Ulrich Eisele, 2012-12-06 Modern polymer materials are designed by applying principles of correlation between chemical structure physical macrostructure and technological properties Fundamentals of polymer physics are explained in this book without excessive use of calculations Four main sections treat relaxation of polymers melting and crystallization the mechanism of deformation in thermoplastics elastomers and multiphase systems and thermodynamics of mixing and swelling of polymers and polymer networks The book presents the theoretical models of polymer physics in a comprehensive style and relates their applicability to real polymer systems in terms of the available experimental observations

**Monte Carlo and Molecular Dynamics Simulations in Polymer Science** Kurt Binder, 1995 Talks about various computer simulation techniques used for macromolecular materials This book describes how to use simulation to explain experimental data and gain insight into structure and dynamic properties of polymeric structures Explanations are given on how to overcome challenges posed by large size and slow relaxation polymer coils

**Fractal Approach to Tribology of Elastomers** Ahad Kh Janahmadov, Maksim Javadov, 2018-07-28 This book summarizes the results of years of research on the problem of strength and fracture of polymers and elastomers It sets out the modern approach to the strength theory from the standpoint of fractals the kinetic and thermodynamic theories as well as the meso mechanic destruction The dimension reduction method is applied to model the friction processes in elastomers subjected to the complex dynamic loading Finally it analyses a relation between the fracture mechanism and the relation phenomena and provides new experimental data on the sealing nodes in accordance with their specific working conditions where the effect of self sealing is observed

**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

*Electronic and Optical Properties of Conjugated Polymers* William Barford, 2013-04-04 Conjugated polymers have important technological applications including solar cells and light emitting devices They are active components in many important biological processes This book describes and explains the electronic and optical properties of

conjugated polymers by developing theoretical models to understand the key electronic states

**Fundamentals of Soft Matter Science** Linda S. Hirst, 2019-08-09 This revised edition continues to provide the most approachable introduction to the structure characteristics and everyday applications of soft matter It begins with a substantially revised overview of the underlying physics and chemistry common to soft materials Subsequent chapters comprehensively address the different classes of soft materials from liquid crystals to surfactants polymers colloids and biomaterials with vivid full color illustrations throughout There are new worked examples throughout new problems some deeper mathematical treatment and new sections on key topics such as diffusion active matter liquid crystal defects surfactant phases and more Introduces the science of soft materials experimental methods used in their study and wide ranging applications in everyday life Provides brand new worked examples throughout in addition to expanded chapter problem sets and an updated glossary Includes expanded mathematical content and substantially revised introductory chapters This book will provide a comprehensive introductory resource to both undergraduate and graduate students discovering soft materials for the first time and is aimed at students with an introductory college background in physics chemistry or materials science *Physical Chemistry* Robert G. Mortimer, 2008-05-29 In this third edition core applications have been added along with more recent developments in the theories of chemical reaction kinetics and molecular quantum mechanics as well as in the experimental study of extremely rapid chemical reactions Fully revised concise edition covering recent developments in the field Supports student learning with step by step explanation of fundamental principles an appropriate level of math rigor and pedagogical tools to aid comprehension Encourages readers to apply theory in practical situations [Statistical Physics Of Dna: An Introduction To Melting, Unzipping And Flexibility Of The Double Helix](#) Nikos Theodorakopoulos, 2019-12-24 The stability of the DNA double helix is contingent on fine tuning a number of physicochemical control parameters Varying any one of them leads to separation of the two strands in what constitutes a rare physical example of a thermodynamic phase transition in a one dimensional system The present book aims at providing a self contained account of the statistical physics of cooperative processes in DNA e g thermal and mechanical dissociation force induced melting equilibria of hairpin like secondary structures In addition the book presents some fundamental aspects of DNA elasticity as observed in key experiments old and new The latter include some recently published scattering data on apparently soft short DNA chains and their interpretation in terms of local structural defects permanent bends kinky DNA after the original Crick Klug hypothesis The development of mathematical models used Kratky Porod polymer chain Poland Scheraga and Peyrard Bishop Dauxois models of DNA melting emphasizes the use of realistic parameters and the relevance of practical numerical methods for comparing with experimental data Accordingly a large number of specially produced figures has been included The presentation is at the level of an advanced undergraduate or introductory graduate course An extra chapter provides the necessary mathematical background on elasticity of model polymer chains *American Book Publishing Record*, 2004 **Handbook of Surfaces**

**and Interfaces of Materials: Biomolecules, biointerfaces, and applications** Hari Singh Nalwa, 2001      **A Concise Introduction to Polymer Physics** Reinhard Hentschke, 2025-07-05 This textbook provides a concise and transparently structured one semester course in polymer physics the science in addition to polymer chemistry behind a class of ubiquitous materials It covers all major theoretical concepts and their applications in six chapters including the conformations of chains the thermodynamics of mixtures solutions and networks and the dynamics of polymers Selected topics highlight aspects of polymer mechanics the role of particulate fillers stable and labile liquid crystal polymers and polyelectrolytes Solved problems deepen and extend important points that are explained in the main chapters The emphasis is on the derivation of the results and not on their mere presentation If a result can be obtained using different theoretical methods or viewed from a different angle an attempt is made to explain the relationships between the methods as clearly as possible In addition the validation of theoretical results through suitable experiments is always included All this assumes a certain familiarity with statistical thermodynamics and its mathematics which means that the text is best suited for upper undergraduate level

*Thermophysics of Polymers I* Herbert Baur, 1999-05-21 Herbert Baur provides a simple description of the theory of thermophysics of polymers In order to illustrate the theoretical skeleton he has only treated the simple easily comprehensible problems of polymer physics These however in detail The main points covered are thermally excited conformation isomery of polymers phonon gas of ideal polymer crystals the dissipative thermo mechanical behavior of polymers new aspects of viscoelastic behavior glass transition and crystallization      **Conformations of Macromolecules** Tat'iāna Maksimovna Birshteĭn, Oleg Borisovich Ptīsyn, 1966      **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      *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards, 1963

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