T. Kawakatsu

Statistical Physics of Polymers

An Introduction

Statistical Physics Of Polymers An Introduction

F W Wiegel

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 poly mers and complex fluids aimed at senior undergraduate and graduate stu dents 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 me chanics 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   Introduction to Path-integral Methods in Physics and Polymer Science F W Wiegel,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 over view of the role of path integrals in recent developments in physics A good bibliography is provided for each chapter Request Inspection Copy   *A Guide to Monte Carlo Simulations in Statistical Physics* David P. Landau,Kurt Binder,2014-11-13 Dealing with all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics this book provides an introduction to computer simulations in physics This fourth edition contains extensive new material describing numerous powerful algorithms not covered in previous editions in some cases representing new developments that have only recently appeared Older methodologies whose impact was previously unclear or unappreciated are also introduced in addition to many small revisions that bring the text and cited literature up to date This edition also introduces the use of petascale computing facilities in the Monte Carlo arena Throughout the book there are many applications examples recipes case studies and exercises to help the reader understand the material It is ideal for graduate students and researchers both in academia and industry who want to learn techniques that have become a third tool of physical science complementing experiment and analytical theory   **Encyclopedia of Chemical Physics and Physical Chemistry: Applications** Nicholas D. Spencer,John H. Moore,2001   **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 **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 sealing 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 house 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 Information Sources in Physics Dennis F. Shaw,1994 This third edition includes two new chapters on quantum optics and physics of materials and eight of the other chapters have been completely rewritten by new authors All chapters have been revised and updated Patent coverage now includes European and international patents Theoretical materials a *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 *The Application of Automata Theory to Problems in Information Retrieval* United States. National Bureau of Standards. Data Processing Systems Division,Russell A. Kirsch,1963

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen Kleinert,2006 This is the fourth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have become possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman s famous formula to include singular attractive 1 r and 1 r2 potentials The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely integrals over products of distributions The powerful Feynman Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent expansions The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals Tunneling processes are treated in detail The results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers A corresponding extension of large order perturbation theory also applies now to small orders Special attention is devoted to path integrals with topological restrictions These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black Scholes formula for option prices are given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions The author s other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions **Journal of Physics** ,1995 **A Bibliography of Foreign Developments in Machine Translation and Information Processing** Josephine L. Walkowicz,1963 **Information Selection Systems Retrieval Replica Copies** Thomas C. Bagg,Mary Elizabeth Stevens,1961 Polymer Reactions Geoffrey Allen,J. C. Bevington,1989 Hardbound Volume 6 reviews polymer reactions with 23 chapters discussing various aspects of the subject **Physics Letters** ,1997 *Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics* ,1991 *Perspectives in Polymer Science* Erich S. Proskauer,1966 *Statistical Physics* Harry Eugene Stanley,1986 *Statistical Mechanics of Chain Molecules* Paul J. Flory,1969

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