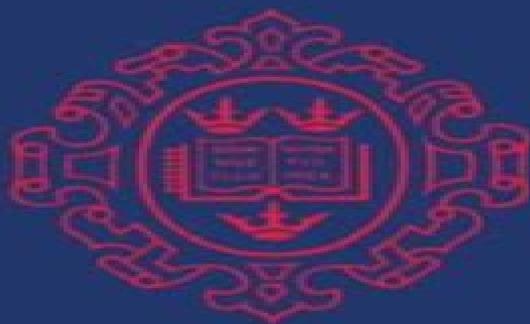


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**Erhard Wolfgang Fischer, Rolf C.
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The Theory of Polymer Dynamics Masao Doi, Sam F. Edwards, Samuel Frederick Edwards, 1988 Over the past twenty years our understanding of polymer solutions has undergone a dramatic evolution New methods and concepts have extended the frontier of the theory from dilute solutions in which polymers move independently of each other to concentrated solutions where many polymers entangle with each other This book provides a comprehensive account of the modern theory for the dynamical properties of polymer solutions This includes viscoelasticity diffusion dynamic light scattering and flow and electric birefringence Nonlinear viscoelasticity is discussed in detail on the basis of molecular dynamical models The book fills a gap between classical theory and modern developments and constructs a consistent picture for the dynamics of polymer solutions over the entire concentration range

The Theory of Polymer Dynamics Masao Doi, 1986

The Mesoscopic Theory of Polymer Dynamics Vladimir Nikolaevich Pokrovskii, 2000 Our brutal century of atom bombs and spaceships can also be called the century of polymers In any case the broad spreading of synthetic polymer materials is one of the signs of our time A look at the various aspects of our life is enough to convince us that polymeric materials textiles plastics rubbers are as widely spread and important in our life as are other materials metals and non metals derived from small molecules Polymers have entered the life of the twentieth century as irreplaceable construction materials Polymers differ from other substances by the size of their molecules which appropriately enough are referred to as macromolecules since they consist of thousands or tens of thousands of atoms molecular weight up to 4 6 10 or more and have a macroscopic rectilinear length up to 10 cm The atoms of a macromolecule are firmly held together by valence bonds forming a single entity In polymeric substances the weaker van der Waals forces have an effect on the components of the macromolecules which form the system The structure of polymeric systems is more complicated than that of low molecular solids or liquids but there are some common features the atoms within a given macromolecule are ordered but the centres of mass of the individual macromolecules and parts of them are distributed randomly Remarkably the mechanical response of polymeric systems combines the elasticity of a solid with the fluidity of a liquid

The Mesoscopic Theory of Polymer Dynamics Vladimir N. Pokrovskii, 2009-12-16 The theory presented in this book explains in a consistent manner all dynamics effects observed in very concentrated solutions and melts of linear polymers from a macromolecular point of view The presentation is compact and self contained

On the Simulation and Theory of Polymer Dynamics in Sieving Media Martin Kenward, 2007

Polymer Dynamics Doug Grzetic, 2011

Physical Properties of Polymers Handbook James E. Mark, 2007-03-21 This book offers concise information on the properties of polymeric materials particularly those most relevant to physical chemistry and chemical physics Extensive updates and revisions to each chapter include eleven new chapters on novel polymeric structures reinforcing phases in polymers and experiments on single polymer chains The study of complex materials is highly interdisciplinary and new findings are scattered among a large selection of scientific and engineering

journals This book brings together data from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials

Polymer Statistics Under Confinement and Multiple Scattering Theory for Polymer Dynamics and Elasticity Radu Paul Mondescu,1999

Tube Theory of Entangled Polymer Dynamics Tom McLeish,2002

Stochastic Processes in Polymeric Fluids Hans C. Öttinger,2012-12-06

A SPECTER is haunting the scientific world the specter of computers All the powers of traditional science have entered into a holy alliance to exorcise this specter puristic theoreticians and traditional experimentalists editors and referees of prestigious journals philosophers of science and mathematicians Where is a pioneering computer simulation that has not been decried as unreliable by its opponents in power The Computer Manifesto As a result of the enormous progress in computer technology made during the last few decades computer simulations have become a very powerful and widely applicable tool in science and engineering The main purpose of this book is a comprehensive description of the background and possibilities for the application of computer simulation techniques in polymer fluid dynamics Modeling and understanding the flow behavior of polymeric liquids on the kinetic theory level is not merely a great intellectual challenge but rather a matter of immense practical importance for example in connection with plastics manufacture processing of foods and movement of biological fluids The classical computer simulation technique for static problems in statistical mechanics is the Monte Carlo method developed in the early 1950s The name of this method underlines how unusual and strange the idea of using random numbers in the exact sciences is at first glance However the Monte Carlo method is a rigorous and efficient means for evaluating moments and static spatial correlation functions for given probability distributions

Field Theoretic Simulations in Soft Matter and Quantum Fluids Glenn Fredrickson,Kris Delaney,2023-02-13 This monograph provides an introduction to field theoretic simulations in classical soft matter and Bose quantum fluids The method represents a new class of molecular computer simulation in which continuous fields rather than particle coordinates are sampled and evolved Field theoretic simulations are capable of analysing the properties of systems that are challenging for traditional simulation techniques including dense phases of high molecular weight polymers self assembling fluids and quantum fluids at finite temperature The monograph details analytical methods for converting classical and quantum many body problems to equilibrium field theory models with a molecular basis Numerical methods are described that enable efficient accurate and scalable simulations of such models on modern computer hardware including graphics processing units GPUs Extensions to non equilibrium systems are discussed along with an introduction to advanced field theoretic simulation techniques including free energy estimation alternative ensembles coarse graining and variable cell methods

Continuum Models for Low-Frequency Dynamics of Macromolecules and Vesicles ,2008

Order, Disorder And Criticality - Advanced Problems Of Phase Transition Theory - Volume 5 Yuriy Holovatch,2017-12-28 This book is the fifth volume of papers on advanced problems of phase transitions and critical phenomena the first four volumes appeared in 2004 2007 2012 and 2015

It aims to compile reviews in those aspects of criticality and related subjects that are of current interest. The seven chapters discuss criticality of complex systems where the new emergent properties appear via collective behaviour of simple elements. Since all complex systems involve cooperative behaviour between many interconnected components, the field of phase transitions and critical phenomena provides a very natural conceptual and methodological framework for their study. As the first four volumes, this book is based on the review lectures that were given in Lviv, Ukraine, at the Ising lectures, a traditional annual workshop on phase transitions and critical phenomena which aims to bring together scientists working in the field of phase transitions with university students and those who are interested in the subject.

Materials Research for Manufacturing Lynnette D Madsen, Erik B Svedberg, 2016-01-14. This book is about applied materials research in industry. It presents various important topics and challenges and gives guidance to materials researchers who move to industry. The book focuses on the materials manufacturing issues for industrial application. It deals with developments and challenges in traditional materials areas such as metals and ceramics and new opportunities that have risen from nanotechnology and additive manufacturing. The chapters, written by senior people from large companies, include successful manufacturing undertakings, several distinct and unresolved manufacturing challenges with the focus on approaches, timelines, and the skills needed for future company research and development. The book provides a cross-section of current and future approaches valuable for new employees and academics working in industry.

Advances in Engineering Plasticity and its Application IX Jeong Whan Yoon, Heung Nam Han, Beom Soo Kang, Young Suk Kim, 2019-02-25. 14th Asia Pacific Symposium on Engineering Plasticity and its Applications. 14th AEPA 2018. Selected peer-reviewed papers from the 14th Asia Pacific Symposium on Engineering Plasticity and its Applications. AEPA 2018. December 2-7, 2018. Jeju Island, Korea.

Laser Physics, 2007

Chemistry and Physics of Macromolecules Erhard Wolfgang Fischer, Rolf C. Schulz, Hans Sillescu, 1991. **Journal of Rheology**, 2008. Includes abstracts from the Journal of the Society of Rheology, Japan.

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