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Hans Christian Öttinger



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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 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

Mathematical Modelling and Biomechanics of the Brain Corina Drapaca, Siv Sivaloganathan, 2019-09-06 This monograph aims to provide a rigorous yet accessible presentation of some fundamental concepts used in modeling brain mechanics and give a glimpse of the insights and advances that have arisen as a result of the nascent interaction of the mathematical and neurosurgical sciences It begins with some historical perspective and a brief synopsis of the biomedical biological manifestations of the clinical conditions diseases considered Each chapter proceeds with a discussion of the various mathematical models of the problems considered starting with the simplest models and proceeding to more complex models where necessary A detailed list of relevant references is provided at the end of each chapter With the beginning research student in mind the chapters have been crafted to be as self contained as possible while addressing different clinical conditions and diseases The book is intended as a brief introduction to both theoreticians and experimentalists interested in brain mechanics with directions and guidance for further reading for those who wish to pursue particular topics in greater depth It can also be used as a complementary textbook in a graduate level course for neuroscientists and neuroengineers

Optical Binding Phenomena: Observations and Mechanisms Jonathan M. Taylor, 2011-07-10 This thesis addresses optical binding a new area of interest within the field of optical micromanipulation It presents for the first time a rigorous numerical simulation of some of the key results along with new experimental findings and also physical interpretations of the results In an optical trap particles are attracted close to areas of high optical intensities and intensity gradients So for example if two lasers are pointed towards each other a counter propagating trap then a single particle is trapped in the centre of the two beams the system is analogous to a particle being held by two springs in a potential well If one increases the number of particles in the trap then naively one would expect all the particles to collect in the centre of the well However the effect of optical binding means that the presence of one particle affects the

distribution of light experienced by another particle resulting in extremely complex interactions that can lead to unusual 1D and 2D structures to form within the trap Optical binding is not only of theoretical interest but also has applications in micromanipulation and assembly

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 The Physics of Inertial Fusion Stefano Atzeni, Jürgen Meyer-ter-Vehn, 2004-06-03 This book is on inertial confinement fusion an alternative way to produce electrical power from hydrogen fuel by using powerful lasers or particle beams It involves the compression of tiny amounts micrograms of fuel to thousand times solid density and pressures otherwise existing only in the centre of stars Thanks to advances in laser technology it is now possible to produce such extreme states of matter in the laboratory Recent developments have boosted laser intensities again with new possibilities for laser particle accelerators laser nuclear physics and fast ignition of fusion targets This is a reference book for those working on beam plasma physics be it in the context of fundamental research or applications to fusion energy or novel ultra bright laser sources The book combines quite different areas of physics beam target interaction dense plasmas hydrodynamic implosion and instabilities radiative energy transfer as well as fusion reactions Particular attention is given to simple and useful modelling including dimensional analysis and similarity solutions Both authors have worked in this field for more than 20 years They want to address in particular those teaching this topic to students and all those interested in understanding the technical basis **Vortices in Nonlinear Fields** Len M. Pismen, 1999 Although natural phenomena can be described by a few simple and symmetric basic laws they exhibit an astounding variety of behaviours This can be explained by a process known as symmetry breaking which can cause an ordered state to form with topological defects The dynamics of further evolution are determined to a large extent by the dynamics of such defects This book covers the structure and dynamics of vortices in a variety of nonlinear field models with spontaneously broken symmetry Point vortices or vortex lines can correspond depending on the physical setting to quantized vortices in superfluids or superconductors dislocations in non equilibrium patterns rotating spiral waves disclinations in liquid crystals singularities in optical fields or strings in relativistic field theories This book is unique in considering vortices in these different settings but also emphasizes the analytical methods that allow an understanding of the common theoretical structure underlying defect dynamics *Condensed-Matter-Principia Based Information & Statistical Measures* Adam Gądomski, Sylwia Zielińska-Raczyńska, 2021-01-20 This book summarizes the efforts of ten papers collected by the Special Issue Condensed Matter Principia Based Information Werner Ebeling Berlin ought to be highlighted In light of this a development of his research as it has moved from statistical thermodynamics to solid state theory pursued in terms of nonlinear solid state optics Franco Bassani Pisa and culminated very recently with large quasiparticles termed Rydberg excitons and their coherent interactions with light is worth delineating *Advances in the Casimir Effect* Michael Bordag, 2009-05-28 This book is a comprehensive sourcebook distilled from hundreds of recently published papers about the Casimir effect the small forces originating from the quantum vacuum and acting between closely spaced bodies It brings together developments in experiment and theory fundamental and applied aspects of the Casimir force **Novel Superfluids** K. H. Bennemann, John Boyd Ketterson, 2014 Volume 2 of Novel Superfluids continues the presentation of recent

results on superfluids including novel metallic systems superfluid liquids and atomic molecular gases of bosons and fermions particularly when trapped in optical lattices Since the discovery of superconductivity Leyden 1911 superfluid 4He Moscow and Cambridge 1937 superfluid 3He Cornell 1972 and observation of Bose Einstein Condensation BEC of a gas Colorado and MIT 1995 the phenomenon of superfluidity has remained one of the most important topics in physics Again and again novel superfluids yield surprising and interesting behaviors The many classes of metallic superconductors including the high temperature perovskite based oxides MgB₂ organic systems and Fe based pnictides continue to offer challenges The technical applications grow steadily What the temperature and field limits are remains illusive Atomic nuclei neutron stars and the Universe itself all involve various aspects of superfluidity and the lessons learned have had a broad impact on physics as a whole

Theoretical Advancement in Chromatography and Related Separation Techniques Francesco Dondi, Georges Guiochon, 2012-12-06 Chromatography and all the related separation techniques are experimental in their origin and justification However the spectacular progress made in this area since World War II has given rise to a theoretical underpinning The present book covers the current status of the research area and places it in perspective with the general concepts of the fields of physical chemistry involved The ASI lectures authors well known leaders in their fields have written presentations at the graduate level accessible to all those who have a good general background in the thermodynamics and mass transfer theory of phase equilibria The book will be useful to young scientists and engineers who wish to access the current frontiers in chromatography and other separation sciences

Dynamics and Rheology of Miscible Polymer Blends Jeffrey Charles Haley, 2005 Stochastic Dynamics Out of Equilibrium Giambattista Giacomini, Stefano Olla, Ellen

Saada, Herbert Spohn, Gabriel Stoltz, 2019-06-30 Stemming from the IHP trimester Stochastic Dynamics Out of Equilibrium this collection of contributions focuses on aspects of nonequilibrium dynamics and its ongoing developments It is common practice in statistical mechanics to use models of large interacting assemblies governed by stochastic dynamics In this context equilibrium is understood as stochastically time reversible dynamics with respect to a prescribed Gibbs measure Nonequilibrium dynamics correspond on the other hand to irreversible evolutions where fluxes appear in physical systems and steady state measures are unknown The trimester held at the Institut Henri Poincaré IHP in Paris from April to July 2017 comprised various events relating to three domains i transport in non equilibrium statistical mechanics ii the design of more efficient simulation methods iii life sciences It brought together physicists mathematicians from many domains computer scientists as well as researchers working at the interface between biology physics and mathematics The present volume is indispensable reading for researchers and Ph D students working in such areas

Beyond Equilibrium Thermodynamics Hans Christian Öttinger, 2005-04-29 Beyond Equilibrium Thermodynamics fills a niche in the market by providing a comprehensive introduction to a new emerging topic in the field The importance of non equilibrium thermodynamics is addressed in order to fully understand how a system works whether it is in a biological system like the brain or a system that

develops plastic In order to fully grasp the subject the book clearly explains the physical concepts and mathematics involved as well as presenting problems and solutions over 200 exercises and answers are included Engineers scientists and applied mathematicians can all use the book to address their problems in modelling calculating and understanding dynamic responses of materials

Liquid Dynamics John T. Fourkas, 2002 The dynamics of liquids play a major role in many chemical physical and biological processes However the strong intermolecular interactions and high degree of disorder that characterize liquids pose a significant challenge to developing a detailed understanding of this state of matter The chapters of this book describe current research using state of the art techniques in experiment simulation and theory to unravel the mysteries of liquid behavior Sections of the book are devoted to microscopic dynamics photochemistry vibrational dynamics water metastable liquids and confined liquids The introduction includes a detailed background discussion of terminology major problems and leading approaches in the context of these different topic areas

CP Violation Gustavo C. Branco, Luís Lavoura, João Paulo Silva, 1999 CP violation is an intriguing and elusive subject and current knowledge of it remains limited on both the experimental and theoretical levels Researchers lack a fundamental understanding of its origin and this is all the more important because CP violation is related to the generation problem and mass problem two of the basic open questions in particle physics This book provides beginning researchers with a self contained introduction to the subject starting at an elementary level and taking the reader to the forefront of current research

Probabilistic Methods In Fluids, Proceedings Of The Swansea 2002 Workshop Ian M Davies, Oubay Hassan, Niels Jacob, K Morgan, Aubrey Truman, N P Weatherill, 2003-06-13 This volume contains recent research papers presented at the international workshop on Probabilistic Methods in Fluids held in Swansea The central problems considered were turbulence and the Navier Stokes equations but as is now well known these classical problems are deeply intertwined with modern studies of stochastic partial differential equations jump processes and random dynamical systems The volume provides a snapshot of current studies in a field where the applications range from the design of aircraft through the mathematics of finance to the study of fluids in porous media

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

Multiscale Modeling and Simulation in Science Björn

Engquist, Per Lötstedt, Olof Runborg, 2009-02-11 Most problems in science involve many scales in time and space An example is turbulent flow where the important large scale quantities of lift and drag of a wing depend on the behavior of the small vortices in the boundary layer Another example is chemical reactions with concentrations of the species varying over seconds and hours while the time scale of the oscillations of the chemical bonds is of the order of femtoseconds A third example from structural mechanics is the stress and strain in a solid beam which is well described by macroscopic equations but at the tip of a crack modeling details on a microscale are needed A common difficulty with the simulation of these problems and many others in physics chemistry and biology is that an attempt to represent all scales will lead to an enormous computational problem with unacceptably long computation times and large memory requirements On the other hand if the discretization at a coarse level ignores the fine scale information then the solution will not be physically meaningful The inclusion of the fine scales must be incorporated into the model This volume is the result of a Summer School on Multiscale Modeling and Simulation in Science held at Bosön Lidingö outside Stockholm Sweden in June 2007 Sixty PhD students from applied mathematics the sciences and engineering participated in the summer school

Reviews in Computational Chemistry, Volume 23 Kenny B. Lipkowitz, Thomas R. Cundari, Donald B. Boyd, 2007-02-26 THIS VOLUME LIKE THOSE PRIOR TO IT FEATURES CHAPTERS BY EXPERTS IN VARIOUS FIELDS OF COMPUTATIONAL CHEMISTRY Volume 23 COVERS LINEAR SCALING METHODS FOR QUANTUM CHEMISTRY VARIATIONAL TRANSITION STATE THEORY COARSE GRAIN MODELING OF POLYMERS SUPPORT VECTOR MACHINES CONICAL INTERSECTIONS ANALYSIS OF INFORMATION CONTENT USING SHANNON ENTROPY AND HISTORICAL INSIGHTS INTO HOW COMPUTING EVOLVED IN THE PHARMACEUTICAL INDUSTRY FROM REVIEWS OF THE SERIES Reviews in Computational Chemistry remains the most valuable reference to methods and techniques in computational chemistry JOURNAL OF MOLECULAR GRAPHICS AND MODELLING One cannot generally do better than to try to find an appropriate article in the highly successful Reviews in Computational Chemistry The basic philosophy of the editors seems to be to help the authors produce chapters that are complete accurate clear and accessible to experimentalists in particular and other nonspecialists in general JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

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