

THE IMA VOLUMES
IN MATHEMATICS
AND ITS APPLICATIONS

VOLUME 102

Stuart G. Whittington
Editor

Numerical Methods for Polymeric Systems



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Numerical Methods For Polymeric Systems

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Numerical Methods For Polymeric Systems:

Numerical Methods for Polymeric Systems Stuart G. Whittington, 2012-12-06 Polymers occur in many different states and their physical properties are strongly correlated with their conformations. The theoretical investigation of the conformational properties of polymers is a difficult task and numerical methods play an important role in this field. This book contains contributions from a workshop on numerical methods for polymeric systems held at the IMA in May 1996 which brought together chemists, physicists, mathematicians, computer scientists and statisticians with a common interest in numerical methods. The two major approaches used in the field are molecular dynamics and Monte Carlo methods and the book includes reviews of both approaches as well as applications to particular polymeric systems. The molecular dynamics approach solves the Newtonian equations of motion of the polymer giving direct information about the polymer dynamics as well as about static properties. The Monte Carlo approaches discussed in this book all involve sampling along a Markov chain defined on the configuration space of the system. An important feature of the book is the treatment of Monte Carlo methods including umbrella sampling and multiple Markov chain methods which are useful for strongly interacting systems such as polymers at low temperatures and in compact phases. The book is of interest to workers in polymer statistical mechanics and also to a wider audience interested in numerical methods and their application in polymeric systems. **Numerical Methods for**

Polymeric Systems Stuart G. Whittington, 1998-08-13 This book contains contributions from a workshop on numerical methods for polymeric systems held at the IMA in May 1996. The workshop brought together chemists, physicists, mathematicians, computer scientists and statisticians with a common interest in numerical methods. This book is of interest to workers in polymer statistical mechanics and also to a wider audience interested in numerical methods and their application in polymeric systems. **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. *Eco-friendly and Smart Polymer Systems* Hamid Mirzadeh, Ali Asghar Katbab, 2020-05-29 This proceedings book presents the main findings of

the 13th International Seminar on Polymer Science and Technology ISPST 2018 which was held at Amirkabir University of Technology Tehran on November 10 22 2018 This forum was the culmination of more than three decades of academic and industrial activities of Iranian scholars and professionals and the participation of many notable international scientists in covering various important polymer related subjects of concern to Iran and the world at large including polymer synthesis processing and properties as well as issues concerning polymer degradation stability and environmental aspects For the past half a century the growing concern for advancing human health quality of life and especially in the last few decades avoiding and combating environmental pollution have shaped and driven scientific activities geared toward the creation of smart materials that are compatible with the human body and have prompted scientists and technologists to pursue research using natural and sustainable sources This book highlights efforts to responsibly address the problems caused by and which can potentially be solved by polymers and plastics

Simulation Methods for Polymers Michael Kotelyanskii, Doros N. Theodorou, 2004-03-01

Modeling and Simulation in Polymer Reaction Engineering Klaus-Dieter Hungenberg, Michael Wulkow, 2018-05-29 Introducing a unique modular approach to modeling polymerization reactions this useful book will enable practitioners chemists and engineers alike to set up and structure their own models for simulation software like Predici C MatLab or others The generic modules are exemplified for concrete situations for various reactor types and reaction mechanisms and allow readers to quickly find their own point of interest a highly useful information source for polymer engineers and researchers in industry and academia

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

Scientific and Technical Aerospace Reports, 1990 *Photonic Polymer Systems* Donald L. Wise, Gary E. Wnek, Debra J. Trantolo, Thomas M. Cooper, Joseph D. Gresser, 1998-07-10 Furnishes the necessary background information methods of characterization and applications of optic and photonic systems based on polymers Provides detailed tutorial chapters that offer in depth explanations of optic and photonic fundamentals and synthesis techniques

Topology and Geometry in Polymer Science Stuart G. Whittington, Witt De Sumners, Timothy Lodge, 2012-12-06 This IMA Volume in Mathematics and its Applications TOPOLOGY AND GEOMETRY IN POLYMER SCIENCE is based on the proceedings of a very successful one week workshop with the same title This workshop was an integral part of the 1995 1996 IMA program on Mathematical Methods in Materials Science We would like to thank Stuart G Whittington De Witt Sumners and Timothy Lodge for their excellent work as organizers of the meeting and for editing the proceedings We also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible

A vner Friedman Robert Gulliver v PREFACE This book is the product of a workshop on Topology and Geometry of Polymers held at the IMA in June 1996 The workshop brought together topologists combinatorialists theoretical physicists and polymer scientists who share an interest in characterizing and predicting the microscopic entanglement properties of polymers and their effect on macroscopic physical properties

Theory and Modeling of Polymer Nanocomposites Valeriy V. Ginzburg, Lisa M. Hall, 2020-12-16 This edited volume brings together the state of the art in polymer nanocomposite theory and modeling creating a roadmap for scientists and engineers seeking to

design new advanced materials The book opens with a review of molecular and mesoscale models predicting equilibrium and non equilibrium nanoscale structure of hybrid materials as a function of composition and especially filler types Subsequent chapters cover the methods and analyses used for describing the dynamics of nanocomposites and their mechanical and physical properties Dedicated chapters present best practices for predicting materials properties of practical interest including thermal and electrical conductivity optical properties barrier properties and flammability Each chapter is written by leading academic and industrial scientists working in each respective sub field The overview of modeling methodology combined with detailed examples of property predictions for specific systems will make this book useful for academic and industrial practitioners alike Characterization of Polymer Blends Sabu Thomas,Yves Grohens,P. Jyotishkumar,2015-02-09

Filling the gap for a reference dedicated to the characterization of polymer blends and their micro and nano morphologies this book provides comprehensive systematic coverage in a one stop two volume resource for all those working in the field Leading researchers from industry and academia as well as from government and private research institutions around the world summarize recent technical advances in chapters devoted to their individual contributions In so doing they examine a wide range of modern characterization techniques from microscopy and spectroscopy to diffraction thermal analysis rheology mechanical measurements and chromatography These methods are compared with each other to assist in determining the best solution for both fundamental and applied problems paying attention to the characterization of nanoscale miscibility and interfaces both in blends involving copolymers and in immiscible blends The thermodynamics miscibility phase separation morphology and interfaces in polymer blends are also discussed in light of new insights involving the nanoscopic scale Finally the authors detail the processing morphology property relationships of polymer blends as well as the influence of processing on the generation of micro and nano morphologies and the dependence of these morphologies on the properties of blends Hot topics such as compatibilization through nanoparticles miscibility of new biopolymers and nanoscale investigations of interfaces in blends are also addressed With its application oriented approach handpicked selection of topics and expert contributors this is an outstanding survey for anyone involved in the field of polymer blends for advanced technologies

The Mathematics of Diffusion John Crank,1979 Though it incorporates much new material this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained *Polymer Reaction Engineering of Dispersed Systems* Werner Pauer,2018-11-19 The series *Advances in Polymer Science* presents critical reviews of the present and future trends in polymer and biopolymer science It covers all areas of research in polymer and biopolymer science including chemistry physical chemistry physics material science The thematic volumes are addressed to scientists whether at universities or in industry who wish to keep abreast of the important advances in the covered topics *Advances in Polymer Science* enjoys a longstanding tradition and good reputation in its community Each volume is dedicated to a current topic and each review critically surveys one aspect of that

topic to place it within the context of the volume The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically presenting selected examples explaining and illustrating the important principles and bringing together many important references of primary literature On that basis future research directions in the area can be discussed Advances in Polymer Science volumes thus are important references for every polymer scientist as well as for other scientists interested in polymer science as an introduction to a neighboring field or as a compilation of detailed information for the specialist Review articles for the individual volumes are invited by the volume editors Single contributions can be specially commissioned Readership Polymer scientists or scientists in related fields interested in polymer and biopolymer science at universities or in industry graduate students Encyclopedia of Surface and Colloid Science, 2004 Update Supplement P. Somasundaran, 2014-05-08 Appending the Encyclopedia of Surface and Colloid Science by 42 entries as well as 3800 new citations 1012 equations and 485 illustrations and chemical structures this important supplement summarizes a constellation of new theoretical and experimental findings related to chemical characterization mechanisms interfacial behavior methods and mo **Progress in Colloid and Surface Science Research** Emelio A. Scarpetti, 2007 This book presents leading edge research on colloids and surface science and spans a wide range of topics including biological interactions at surfaces molecular assembly of selective surfaces role of surface chemistry in microelectronics and catalysis tribology and colloidal physics in the context of crystallisation and suspensions fluid interfaces adsorption surface aspects of catalysis dispersion preparation characterisation and stability aerosols foams and emulsions surfaces forces micelles and microemulsions light scattering and spectroscopy nanoparticles new material science detergency and wetting thin films liquid membranes and bilayers surfactant science polymer colloids rheology of colloidal and disperse systems electrical phenomena in interfacial and disperse systems **Filtration in Porous Media and Industrial Application** M.S. Espedal, A. Fasano, A. Mikelic, 2007-05-06 This book is devoted to the presentation of some flow problems in porous media having relevant industrial applications The main topics covered are the manufacturing of composite materials the espresso coffee brewing process the filtration of liquids through diapers various questions about flow problems in oil reservoirs and the theory of homogenization The aim is to show that filtration problems arising in very practical industrial context exhibit interesting and highly nontrivial mathematical aspects Thus the style of the book is mathematically rigorous but specifically oriented towards applications so that it is intended for both applied mathematicians and researchers in various areas of technological interest The reader is required to have a good knowledge of the classical theory of PDE and basic functional analysis *Theory of Block Polymer Self-Assembly* Benjamin R. Magruder, Kevin D. Dorfman, 2024-03-13 This primer introduces the theory of self assembly of block polymers most notably self consistent field theory SCFT Block polymer self assembly is a fascinating and highly interdisciplinary topic This primer can be read at several levels depending on what readers want to get out of it Readers who want an overview of self assembly in block polymer and what SCFT says about the

process can read Chapters 1 3 and skip to Chapter 7 to see the open questions If the reader is further interested in the output of SCFT calculations but not how those outputs are generated they should read Chapter 6 as well But if the reader wants to learn how to do the SCFT calculations themselves Chapters 4 and 5 offer an accessible introduction to the theory and numerical methods providing an excellent entry point into the literature This primer includes data that the authors have computed using SCFT All calculations use the open source software package Polymer Self Consistent Field PSCF developed by David Morse at the University of Minnesota Take breaks from reading to watch ten Insider Q A videos included throughout which offer additional insight from experts in the field such as An Chang Shi Chinedum O Osuji Frank S Bates Christopher M Bates Glenn H Fredrickson and Lisa Hall Furthermore this primer includes multiple features to aid and enhance readers learning That s a Wrap summarizes key concepts at the end of each chapter while Read These Next suggests references that may interest further reading A pop up glossary ensures readers have definitions as needed throughout the primer

Multiphase Polymer Systems Andreea Irina Barzic, Silvia Ioan, 2016-09-19 Phase morphology in multicomponent polymer based systems represents the main physical characteristic that allows for control of the material design and implicitly the development of new plastics Emphasizing properties of these promising new materials in both solution and solid phase this book describes the preparation processing properties and practical implications of advanced multiphase systems from macro to nanoscales It covers a wide range of systems including copolymers polymer blends polymer composites gels interpenetrating polymers and layered polymer metal structures describing aspects of polymer science engineering and technology The book analyzes experimental and theoretical aspects regarding the thermal and electrical transport phenomena and magnetic properties of crucial importance in advanced technologies It reviews the most recent advances concerning morphological rheological interfacial physical fire resistant thermophysical and biomedical properties of multiphase polymer systems Concomitantly the book deals with basic investigation techniques that are sensitive in elucidating the features of each phase It also discusses the latest research trends that offer new solutions for advanced bio and nanotechnologies Introduces an overview of recent studies in the area of multiphase polymer systems their micro and nanostructural evolutions in advanced technologies and provides future outlooks new challenges and opportunities Discusses multicomponent structures that offer enhanced physical mechanical thermal electrical magnetic and optical properties adapted to current requirements of modern technologies Covers a wide range of materials such as composites blends alloys gels and interpenetrating polymer networks Presents new strategies for controlling the micro and nanomorphology and the mechanical properties of multiphase polymeric materials Describes different applications of multiphase polymeric materials in various fields including automotive aeronautics and space industry displays and medicine

Computer Simulations in Condensed Matter: From Materials to Chemical Biology. Volume 2 Mauro Ferrario, Giovanni Ciccotti, Kurt Binder, 2007-04-16 This extensive and comprehensive collection of lectures by world leading experts in the field introduces

and reviews all relevant computer simulation methods and their applications in condensed matter systems Volume 2 offers surveys on numerical experiments carried out for a great number of systems ranging from materials sciences to chemical biology including supercooled liquids spin glasses colloids polymers liquid crystals biological membranes and folding proteins

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