

DYNAMICS OF POLYMERIC LIQUIDS

SECOND EDITION

Volume 1: Fluid Mechanics



R. Byron Bird
Robert C. Armstrong
Ole Hassager

Dynamics Of Polymeric Liquids Volume 1 Fluid Mechanics

Hans C. Öttinger



Dynamics Of Polymeric Liquids Volume 1 Fluid Mechanics:

Dynamics of Polymeric Liquids, Volume 1 R. Byron Bird, 1987-05-27 This revision of an introductory text examines Newtonian liquids and polymer fluid mechanics It begins with a review of the main ideas of fluid dynamics as well as key points of Newtonian fluids

Dynamics of Polymeric Liquids, Volume 2 R. Byron Bird, Charles F. Curtiss, Robert C. Armstrong, Ole Hassager, 1987-05-04 This two volume work is detailed enough to serve as a text and comprehensive enough to stand as a reference Volume 1 Fluid Mechanics summarizes the key experiments that show how polymeric fluids differ from structurally simple fluids then presents in rough historical order various methods for solving polymer fluid dynamics problems Volume 2 Kinetic Theory uses molecular models and the methods of statistical mechanics to obtain relations between bulk flow behavior and polymer structure Includes end of chapter problems and extensive appendixes

Dynamics of Polymeric Liquids, 2 Volume Set R. Byron Bird, Charles F. Curtiss, Robert C. Armstrong, Ole Hassager, 1991-01-16 This two volume work is detailed enough to serve as a text and comprehensive enough to stand as a reference Volume 1 Fluid Mechanics summarizes the key experiments that show how polymeric fluids differ from structurally simple fluids then presents in rough historical order various methods for solving polymer fluid dynamics problems Volume 2 Kinetic Theory uses molecular models and the methods of statistical mechanics to obtain relations between bulk flow behavior and polymer structure Includes end of chapter problems and extensive appendixes

Fundamentals of Fluid Mechanics Joseph A. Schetz, Allen E. Fuhs, 1999 Basic fluid dynamic theory and applications in a single authoritative reference The growing capabilities of computational fluid dynamics and the development of laser velocimeters and other new instrumentation have made a thorough understanding of classic fluid theory and laws more critical today than ever before Fundamentals of Fluid Mechanics is a vital repository of essential information on this crucial subject It brings together the contributions of recognized experts from around the world to cover all of the concepts of classical fluid mechanics from the basic properties of liquids through thermodynamics flow theory and gas dynamics With answers for the practicing engineer and real world insights for the student it includes applications from the mechanical civil aerospace chemical and other fields Whether used as a refresher or for first time learning Fundamentals of Fluid Mechanics is an important new asset for engineers and students in many different disciplines

Dynamics of Polymeric Liquids, Kinetic Theory R. Byron Bird, Charles F. Curtiss, Robert C. Armstrong, Ole Hassager, 1987-05-04

Momentum, Heat, and Mass Transfer Fundamentals Robert Greenkorn, 2018-10-03 Presents the fundamentals of momentum heat and mass transfer from both a microscopic and a macroscopic perspective Features a large number of idealized and real world examples that we worked out in detail

The Fluid Dynamics of Cell Motility Eric Lauga, 2020-11-05 A pedagogical review of the mathematical modelling in fluid dynamics necessary to understand the motility of most microorganisms on Earth

Dynamics of Polymeric Liquids Robert Byron Bird, 1977

Droplet Dynamics Under Extreme Ambient Conditions Kathrin Schulte, Cameron Tropea, Bernhard

Weigand,2022-08-30 This open access book presents the main results of the Collaborative Research Center SFB TRR 75 which spanned the period from 2010 to 2022 Scientists from a variety of disciplines ranging from thermodynamics fluid mechanics and electrical engineering to chemistry mathematics computer science and visualization worked together toward the overarching goal of SFB TRR 75 to gain a deep physical understanding of fundamental droplet processes especially those that occur under extreme ambient conditions These are for example near critical thermodynamic conditions processes at very low temperatures under the influence of strong electric fields or in situations with extreme gradients of boundary conditions The fundamental understanding is a prerequisite for the prediction and optimisation of engineering systems with droplets and sprays as well as for the prediction of droplet related phenomena in nature The book includes results from experimental investigations as well as new analytical and numerical descriptions on different spatial and temporal scales The contents of the book have been organised according to methodological fundamentals phenomena associated with free single drops drop clusters and sprays and drop and spray phenomena involving wall interactions

Polymer Viscoelasticity: Basics, Molecular Theories And Experiments Yn-hwang Lin,2003-12-22 In this book the studies of the Rouse Doi Edwards and extended reptation theories are developed in a consistent manner from a basic level and discussed in detail Viscoelastic properties of nearly monodisperse linear flexible polymers in both the entanglement and entanglement free regions are analyzed quantitatively in terms of the molecular theories

Polymer Viscoelasticity Y.-H. Lin,2011 This book covers in great detail the Rouse segment based molecular theories in polymer viscoelasticity the Rouse theory and the extended reptation theory based on the framework of the Doi Edwards theory that have been shown to explain experimental results in a consistently quantitative way The explanation for the 3/4 power law of viscosity quantitative line shape analyses of viscoelastic responses and agreements between different sorts of viscoelastic responses the consistency between the viscoelasticity and diffusion results the clarification of the onset of entanglement the discovery of the number of entanglement strands per cubed entanglement distance being a universal constant and the basic mechanism of the glass transition related thermorheological complexity are discussed or shown in great detail The mystery behind the success of the Rouse segment based molecular theories over the entropic region of a viscoelastic response is revealed by the Monte Carlo simulations on the Fraenkel chains Specifically the simulation studies give a natural explanation for the coexistence of the energy driven and entropy driven modes in a viscoelastic response and provide a theoretical basis resolving the paradox that the experimentally determined sizes of Rouse and Kuhn segments are nearly the same This book starts from a very fundamental level each chapter is built upon the contents of the previous chapters Thus the readers may use the book as a textbook and eventually reach an advanced research level This book is also a useful source of reference for physicists chemists and material scientists

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 traditionalistic 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

Tool and Manufacturing Engineers Handbook: Plastic Part Manufacturing Philip Mitchell, 1996-12-09 This volume focuses on the practical application of processes for manufacturing plastic products It includes information on design for manufacturability DFM material selection process selection dies molds and tooling extrusion injection molding blow molding thermoforming lamination rotational molding casting foam processing compression and transfer molding fiber reinforced processing assembly and fabrication quality plant engineering and maintenance management

Microhydrodynamics, Brownian Motion, and Complex Fluids Michael D. Graham, 2018-09-13 This is an introduction to the dynamics of fluids at small scales the physical and mathematical underpinnings of Brownian motion and the application of these subjects to the dynamics and flow of complex fluids such as colloidal suspensions and polymer solutions It brings together continuum mechanics statistical mechanics polymer and colloid science and various branches of applied mathematics in a self contained and integrated treatment that provides a foundation for understanding complex fluids with a strong emphasis on fluid dynamics Students and researchers will find that this book is extensively cross referenced to illustrate connections between different aspects of the field Its focus on fundamental principles and theoretical approaches provides the necessary groundwork for research in the dynamics of flowing complex fluids

Heat Transfer in Polymer Composite Materials Nicolas Boyard, 2016-03-03 This book addresses general information good practices and examples about thermo physical properties thermo kinetic and thermo mechanical couplings instrumentation in thermal science thermal optimization and infrared radiation

Rheology for Polymer Melt Processing J.-M. Piau, J.-F. Agassant, 1996-10-10 This book presents the main results obtained by different laboratories involved in the research group Rheology for polymer melt processing which is associated with French universities schools of engineering and the CNRS Centre National de la Recherche Scientifique

France The group comprises some 15 research laboratories of varied disciplines chemistry physics material sciences mechanics mathematics but with a common challenge viz to enhance the understanding of the relationships between macromolecular species their rheology and their processing Some crucial issues of polymer science have been addressed correlation of viscoelastic macroscopic bulk property measurements and models slip at the wall extrusion defects correlation between numerical flow simulations and experiments Features of the book The book is unique in that it allows one to grasp the key issues in polymer rheology and processing at once through a series of detailed state of the art contributions which were previously scattered throughout the literature Each paper was reviewed by experts and the book editors and some coordination was established in order to achieve a readable and easy access style Papers have been grouped in sections covering successively Molecular dynamics Constitutive equations and numerical modelling Simple and complex flows Each paper can be read independently Since the book is intended as an introduction to the main topics in polymer processing it will be of interest to graduate students as well as to scientists in academic and industrial laboratories

Rheology of Industrial Polysaccharides: Theory and Applications R. Lapasin, 2012-12-06 Industrial uses of polysaccharides centre on their ability to thicken or structure many times their own weight of water or in other words to control the rheology of hydrated systems Until comparatively recently however objective characterisation of polysaccharide rheology except in a few specialist research laboratories was largely confined to compression of gels simple measurements of solution viscosity often in ill defined geometries and imitative tests intended to reflect product performance in specific areas of end use Several factors have combined to bring a wider range of rheological techniques into common use One is the increasing practical importance of systems that cannot adequately be described as solids or liquids such as weak gels and spreadable pastes In parallel routine characterisation of such systems has become economically feasible with the development of a new generation of comparatively inexpensive computer controlled instruments There has also been a change of emphasis from phenomenological description of product texture towards the use of rheological measurements to probe the underlying molecular and supramolecular structures and the processes by which they are formed As a result even the most pragmatic producers and users of industrial polysaccharides are probably now familiar with terms such as creep compliance stress overshoot and the ubiquitous G' and G'' although perhaps not fully understanding their precise meaning or practical significance A definitive text giving a rigorous description of the rheological approaches relevant to polysaccharide systems is therefore appropriate and timely Romano Lapasin and Sabrina Priel are to be congratulated for tackling the daunting but worthwhile task of producing such a volume

Albright's Chemical Engineering Handbook Lyle Albright, 2008-11-20 Taking greater advantage of powerful computing capabilities over the last several years the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering Albright's Chemical Engineering Handbook represents a reliable source of updated methods applications and fundamental concepts that will continue to play

a significant role in driving new research and improving plant design and operations Well rounded concise and practical by design this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties Each chapter provides a clear review of basic information case examples and references to additional more in depth information They explain essential principles calculations and issues relating to topics including reaction engineering process control and design waste disposal and electrochemical and biochemical engineering The final chapters cover aspects of patents and intellectual property practical communication and ethical considerations that are most relevant to engineers From fundamentals to plant operations Albright s Chemical Engineering Handbook offers a thorough yet succinct guide to day to day methods and calculations used in chemical engineering applications This handbook will serve the needs of practicing professionals as well as students preparing to enter the field **Microhydrodynamics** Sangtae Kim,Seppo J.

Karrila,2013-04-26 This book is well organized and comprehensive an eloquent and enduring statement of significant hydrodynamic principles AIChE Journal Microhydrodynamics concerns the flow and related phenomena pertinent to the motion of small particles suspended in viscous fluids This text focuses on determining the motion of a particle or particles through a viscous fluid in bounded and unbounded flow Its central theme is the mobility relation between particle motion and forces Microhydrodynamics Principles and Selected Applications functions as a manual that explains methods for solving particulate flows at low Reynolds number from analytical to computational methods The ever increasing growth in computational power has resulted in a similar growth in the range of solvable problems in microhydrodynamics Suitable for graduate students in engineering and applied mathematics this text treats the mathematical foundations and highlights the interplay of both mathematical and physical insights guiding readers through single particle theory and problems related to multiparticle analyses **Advances in Turbulence V** Roberto Benzi,2012-12-06 Under the auspices of the Euromech

Committee the Fifth European Turbulence Conference was held in Siena on 5-8 July 1994 Following the previous ETC meeting in Lyon 1986 Berlin 1988 Stockholm 1990 and Delft 1992 the Fifth ETC was aimed at providing a review of the fundamental aspects of turbulence from a theoretical numerical and experimental point of view In the magnificent town of Siena more than 250 scientists from all over the world spent four days discussing new ideas on turbulence As a research worker in the field of turbulence I must say that the works presented at the Conference on which this book is based covered almost all areas in this field I also think that this book provides a major opportunity to have a complete overview of the most recent research works I am extremely grateful to Prof C Cercignani Dr M Loffredo and Prof R Piva who as members of the local organizing committee share the success of the Conference I also want to thank Mrs Liu Catena for her invaluable contribution to the work done by the local organizing committee and the European Turbulence Committee in the scientific organization of the meeting The Servizio Congressi of the University of Siena provided perfect organization in Siena and wonderful hospitality The Conference has been supported by CNR Cira Alenia the Universities of Rome Tor Vergata and La

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