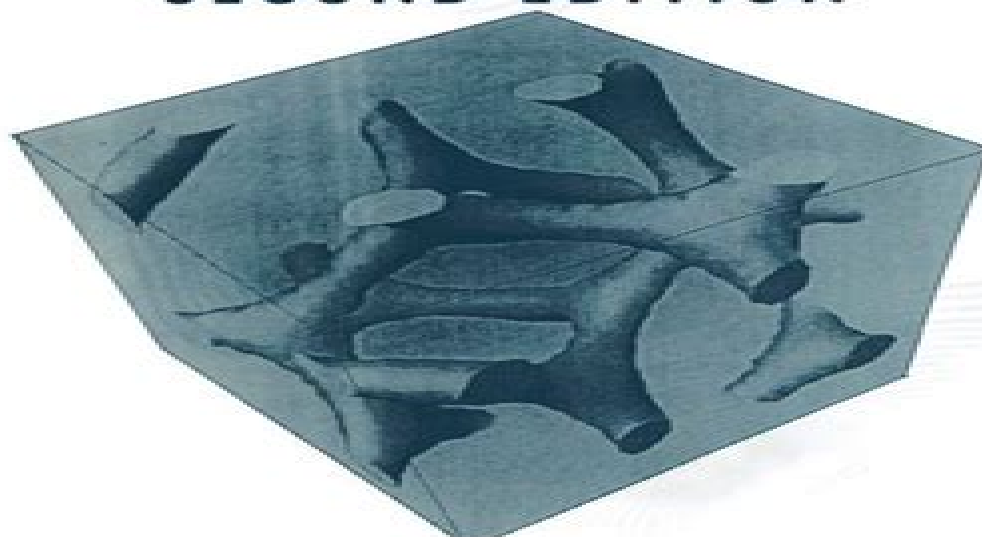


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The Physics Of Glassy Polymers

Robert J. Young, Peter A. Lovell



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The Physics of Glassy Polymers R. N. Haward, 2012-12-06 This work sets out to provide an up to date account of the physical properties and structure of polymers in the glassy state Properties measured above the glass transition temperature are therefore included only in so far as is necessary for the treatment of the glass transition process This approach to the subject therefore excludes any detailed account of rubber elasticity or melt rheology or of the structure and conformation of the long chain molecule in solution although knowledge derived from this field is assumed where required Major emphasis is placed on structural and mechanical properties although a number of other physical properties are included Naturally the different authors contributing to the book write mainly from their own particular points of view and where there are several widely accepted theoretical approaches to a subject these are sometimes provided in different chapters which will necessarily overlap to a significant extent For example the main theoretical presentation on the subject of glass transition is given in Chapter 1 This is supplemented by accounts of the free volume theory in Chapter 3 and in the Introduction and a short account of the work of Gibbs and DiMarzio also in Chapter 3 Similarly there is material on solvent cracking in Chapters 7 and 9 though the two workers approach the subject from opposite directions Every effort has therefore been made to encourage cross referencing between different chapters

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The Physics of Deformation and Fracture of Polymers A. S. Argon, 2013-03-07 A physical mechanism based presentation of the plasticity and fracture of polymers covering industrial scale applications through to nanoscale biofluidic devices

Polymer Glasses Connie B. Roth, 2016-12-12 the present book will be of great value for both newcomers to the field and mature active researchers by serving as a coherent and timely introduction to some of the modern approaches ideas results emerging understanding and many open questions in this fascinating field of polymer glasses supercooled liquids and thin films Kenneth S Schweizer Morris Professor of Materials Science Engineering University of Illinois at Urbana Champaign from the Foreword This book provides a timely and comprehensive overview of molecular level insights into polymer glasses in confined geometries and under deformation Polymer glasses have become ubiquitous to our daily life from the polycarbonate eyeglass lenses on the end of our nose to large acrylic glass panes holding water in aquarium tanks with advantages over glass in that they are lightweight and easy to manufacture while remaining transparent and rigid The contents include an introduction to the field as well as state of the art investigations Chapters delve into studies of commonalities across different types of glass formers polymers small molecules colloids and granular materials which have enabled microscopic and molecular level frameworks to be developed The authors show how glass formers are modeled across different systems thereby leading to treatments for polymer glasses with first principle based approaches and molecular level detail Readers across disciplines will benefit from this topical overview summarizing the key areas of polymer glasses alongside an introduction to the main principles and approaches

Introduction to Polymers, Third Edition Robert J.

Young, Peter A. Lovell, 2011-06-27 Thoroughly updated Introduction to Polymers Third Edition presents the science underpinning the synthesis characterization and properties of polymers The material has been completely reorganized and expanded to include important new topics and provide a coherent platform for teaching and learning the fundamental aspects of contemporary polymer science New to the Third Edition Part I This first part covers newer developments in polymer synthesis including living radical polymerization catalytic chain transfer and free radical ring opening polymerization along with strategies for the synthesis of conducting polymers dendrimers hyperbranched polymers and block copolymers Polymerization mechanisms have been made more explicit by showing electron movements Part II In this part the authors have added new topics on diffusion solution behaviour of polyelectrolytes and field flow fractionation methods They also greatly expand coverage of spectroscopy including UV visible Raman infrared NMR and mass spectroscopy In addition the Flory Huggins theory for polymer solutions and their phase separation is treated more rigorously Part III A completely new major topic in this section is multicomponent polymer systems The book also incorporates new material on macromolecular dynamics and reptation liquid crystalline polymers and thermal analysis Many of the diagrams and micrographs have been updated to more clearly highlight features of polymer morphology Part IV The last part of the book contains major new sections on polymer composites such as nanocomposites and electrical properties of polymers Other new topics include effects of chain entanglements swelling of elastomers polymer fibres impact behaviour and ductile fracture Coverage of rubber toughening of brittle plastics has also been revised and expanded While this edition adds many new concepts the philosophy of the book remains unchanged Largely self contained the text fully derives most equations and cross references topics between chapters where appropriate Each chapter not only includes a list of further reading to help readers expand their knowledge of the subject but also provides problem sets to test understanding particularly of numerical aspects Fundamentals of Polymer Engineering, Third Edition Anil Kumar, Rakesh K. Gupta, 2018-12-07 Exploring the chemistry of synthesis mechanisms of polymerization reaction engineering of step growth and chain growth polymerization polymer characterization thermodynamics and structural mechanical thermal and transport behavior of polymers as melts solutions and solids Fundamentals of Polymer Engineering Third Edition covers essential concepts and breakthroughs in reactor design and polymer production and processing It contains modern theories and real world examples for a clear understanding of polymer function and development This fully updated edition addresses new materials applications processing techniques and interpretations of data in the field of polymer science It discusses the conversion of biomass and coal to plastics and fuels the use of porous polymers and membranes for water purification and the use of polymeric membranes in fuel cells Recent developments are brought to light in detail and there are new sections on the improvement of barrier properties of polymers constitutive equations for polymer melts additive manufacturing and polymer recycling This textbook is aimed at senior undergraduate students and first year graduate students in polymer engineering and science

courses as well as professional engineers scientists and chemists Examples and problems are included at the end of each chapter for concept reinforcement

Handbook Of Polymer Tribology Sujeet K Sinha,2018-03-07 This handbook is a collection of authoritative information in the new and expanding field of polymer tribology It brings together various research topics in the field of polymer tribology in a single volume and provides relevant data in polymer tribology for research and industrial applications The book s chapters are written by active world renowned researchers in the field Subjects covered in this book range from the fundamentals of polymer tribology to highly applied topics such as machine element design bearing and gears hip prosthetic and microsystems applications Readers in the field of tribology in general and polymer tribology in particular will find it very useful as it covers nearly all aspects of polymer tribology Academics creating new courses based on polymer tribology will also find this book s comprehensive coverage valuable Researchers will find this book a ready source of the state of the art in the field of polymer tribology

Properties of Polymers D.W. van Krevelen,Klaas te

Nijenhuis,2009-02-09 This authoritative widely cited book has been used all over the world Properties of Polymers Fourth Edition incorporates the latest developments in the field while maintaining the core objectives of previous editions to correlate properties with chemical structure and to describe methods that permit the estimation and prediction of numerical properties from chemical structure i e nearly all properties of the solid liquid and dissolved states of polymers Extends coverage of critical topics such as electrical and magnetic properties rheological properties of polymer melts and environmental behavior and failure Discusses liquid crystalline polymers across chapters 6 15 and 16 for greater breadth and depth of coverage Increases the number of supporting illustrations from approximately 250 in the previous edition to more than 400 to further aid in visual understanding

Mechanical Properties of Solid Polymers Ian M. Ward,John Sweeney,2012-12-17 Providing an updated and comprehensive account of the properties of solid polymers the book covers all aspects of mechanical behaviour This includes finite elastic behavior linear viscoelasticity and mechanical relaxations mechanical anisotropy non linear viscoelasticity yield behavior and fracture New to this edition is coverage of polymer nanocomposites and molecular interpretations of yield e g Bowden Young and Argon The book begins by focusing on the structure of polymers including their chemical composition and physical structure It goes on to discuss the mechanical properties and behaviour of polymers the statistical molecular theories of the rubber like state and describes aspects of linear viscoelastic behaviour its measurement and experimental studies Later chapters cover composites and experimental behaviour relaxation transitions stress and yielding The book concludes with a discussion of breaking phenomena

Engineering with Polymers, 2nd Edition P. C. Powell,2023-05-31 Plastics and rubber materials or polymers are increasingly the first choice of engineers when reliable cost effective performance and safety are essential The volume of polymers used in the Western economy now exceeds that of metals which requires today s engineering students to have a thorough grounding in the properties and applications of polymeric materials The first chapters of Engineering with

Polymers explain what polymers are how they behave and how articles are made from them The authors then show how the standard engineering techniques of stress analysis structures fluid mechanics heat transfer and design can be adopted or adapted to cover plastics and rubber materials The book ends with chapters detailing interactions between processing and properties and a description of a variety of approaches to designing plastics products from practical advice to the use or further development of theoretical principles backed up by examples and case studies The book is aimed at mechanical engineering students and design engineers in industry and also at materials and chemical engineers

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