

Mechanics of Solid Polymers

Theory and Computational Modeling

Jörgen Bongbröm



Mechanics Of Polymers

A. S. Wineman, K. R. Rajagopal



Mechanics Of Polymers:

Mechanics of Solid Polymers Jorgen S Bergstrom, 2015-07-11 Very few polymer mechanics problems are solved with only pen and paper today and virtually all academic research and industrial work relies heavily on finite element simulations and specialized computer software Introducing and demonstrating the utility of computational tools and simulations Mechanics of Solid Polymers provides a modern view of how solid polymers behave how they can be experimentally characterized and how to predict their behavior in different load environments Reflecting the significant progress made in the understanding of polymer behaviour over the last two decades this book will discuss recent developments and compare them to classical theories The book shows how best to make use of commercially available finite element software to solve polymer mechanics problems introducing readers to the current state of the art in predicting failure using a combination of experiment and computational techniques Case studies and example Matlab code are also included As industry and academia are increasingly reliant on advanced computational mechanics software to implement sophisticated constitutive models and authoritative information is hard to find in one place this book provides engineers with what they need to know to make best use of the technology available Helps professionals deploy the latest experimental polymer testing methods to assess suitability for applications Discusses material models for different polymer types Shows how to best make use of available finite element software to model polymer behaviour and includes case studies and example code to help engineers and researchers apply it to their work

Mechanical Response of Polymers A. S. Wineman, K. R. Rajagopal, 2000-06-05 This book discusses polymers from a mechanical engineering perspective treating stresses and deformations in polymeric structural components

Applied Mechanics of Polymers George Youssef, 2021-12-02 Applied Mechanics of Polymers Properties Processing and Behavior provides readers with an overview of the properties mechanical behaviors and modeling techniques for accurately predicting the behaviors of polymeric materials The book starts with an introduction to polymers covering their history chemistry physics and various types and applications In addition it covers the general properties of polymers and the common processing and manufacturing processes involved with them Subsequent chapters delve into specific mechanical behaviors of polymers such as linear elasticity hyperelasticity creep viscoelasticity failure and fracture The book concludes with chapters discussing electroactive polymers hydrogels and the mechanical characterization of polymers This is a useful reference text that will benefit graduate students postdocs researchers and engineers in the mechanics of materials polymer science mechanical engineering and material science Additional resources related to the book can be found at polymersmechanics.com Provides examples of real world applications that demonstrate the use of models in designing polymer based components Includes access to a companion site from where readers can download FEA and MATLAB code FEA simulation files videos and other supplemental material Features end of chapter summaries with design and analysis guidelines practice problem sets based on real life situations and both analytical and computational

examples to bridge academic and industrial applications

Fracture Mechanics of Polymers James Gordon

Williams,1984

Mechanical Properties and Testing of Polymers

G.M. Swallowe,1999-11-30 This volume represents a continuation of the Polymer Science and Technology series edited by Dr D M Brewis and Professor D Briggs The theme of the series is the production of a number of stand alone volumes on various areas of polymer science and technology Each volume contains short articles by a variety of expert contributors outlining a particular topic and these articles are extensively cross referenced References to related topics included in the volume are indicated by bold text in the articles the bold text being the title of the relevant article At the end of each article there is a list of bibliographic references where interested readers can obtain further detailed information on the subject of the article This volume was produced at the invitation of Derek Brewis who asked me to edit a text which concentrated on the mechanical properties of polymers There are already many excellent books on the mechanical properties of polymers and a somewhat lesser number of volumes dealing with methods of carrying out mechanical tests on polymers Some of these books are listed in Appendix 1 In this volume I have attempted to cover basic mechanical properties and test methods as well as the theory of polymer mechanical deformation and hope that the reader will find the approach useful

Fractal Mechanics of Polymers G. V. Kozlov,Yu G. Yanovskii,2014-11-12 This new

book explores the consideration of relationships that connect the structural and basic mechanical properties of polymeric mediums within the frameworks of fractal analysis with cluster model representations attraction Incidentally the choice of any structural model of medium or their combinations is defined by expediency and further usage

Mechanical

Properties of Solid Polymers I. M. Ward,1983-06-27 A concise self contained introduction to solid polymers the mechanics of their behavior and molecular and structural interpretations This updated edition provides extended coverage of recent developments in rubber elasticity relaxation transitions non linear viscoelastic behavior anisotropic mechanical behavior yield behavior of polymers breaking phenomena and other fields

Mechanics of Polymer Processing J.R.

Pearson,1985-01-31

Introduction to Polymer Physics Ulrich Eisele,2012-12-06 Modern polymer materials are designed by applying principles of correlation between chemical structure physical macrostructure and technological properties

Fundamentals of polymer physics are explained in this book without excessive use of calculations Four main sections treat relaxation of polymers melting and crystallization the mechanism of deformation in thermoplastics elastomers and multiphase systems and thermodynamics of mixing and swelling of polymers and polymer networks The book presents the theoretical models of polymer physics in a comprehensive style and relates their applicability to real polymer systems in terms of the available experimental observations

Molecular Mobility in Deforming Polymer Glasses Nikhil

Padhye,2021-10-15 This book bridges disparate fields in an exploration of the phenomena and applications surrounding molecular mobility in glassy materials experiencing inelastic deformation The subjects of plastic deformation and polymer motion interdiffusion currently belong to the two different fields of continuum mechanics and polymer physics respectively

However molecular motion associated with plastic deformation is a key ingredient to gain fundamental understanding both at the macroscopic and microscopic level This short monograph provides necessary background in the aforementioned fields before addressing the topic of molecular mobility accompanied by macroscopic inelastic deformation in an accessible and easy to understand manner A new phenomenon of solid state deformation induced bonding in polymers is discussed in detail along with some broad implications in several manufacturing sectors Open questions pertaining to mechanisms mechanics and modeling of deformation induced bonding in polymers are presented The book s clear language and careful explanations will speak to readers of diverse backgrounds

Deformation and Fracture Behaviour of Polymers Wolfgang

Grellmann,Sabine Seidler,2013-03-09 The application of fracture mechanics to polymers and composites allows the quantitative description of the toughness behaviour by means of fracture mechanics parameters and enables preventive failure analysis In recent years this young scientific discipline has developed rapidly and now the experimental results are looking for more applications in industrial practice However the practical applications of fracture mechanics parameters to structural integrity assessment are severely restricted owing to their limited transferability from specimens to components Indeed geometry independent fracture mechanics parameters are very important for the reliable functioning of polymers and components in nearly all industrial application fields These application fields include the polymer development quality control construction and polymer specific design of reliable components in the motor industry the electrical industry and the manufacture of household appliances as well as applications in information technology and medical applications The present status report on the deformation and fracture behaviour of polymer materials was composed on the basis of revised lectures presented at the Merseburg discussion conference entitled Deformation and Fracture Behaviour of Polymers and additional single contributions The editors and authors have tried hard to present information about the applied fracture mechanics of polymers and composites in the light of their current research work

Polymer Engineering Science and

Viscoelasticity Hal F. Brinson,L. Catherine Brinson,2008-11-01 A mechanics perspective on the mathematics of viscoelasticity and a materials view of the physical mechanisms behind the polymer deformation processes are provided by this book The book fills a critical niche Clearly written and well organized the volume includes an introduction to and mathematical description of the basic materials science of polymers time temperature frequency dependence and unique deformation mechanisms of polymers

Mechanical Response of Polymers Alan S. Wineman,K. R. Rajagopal,2000-06-05

With increasing use of polymers in sophisticated industrial applications it is essential that mechanical engineers have a solid understanding of these compounds This text provides a thorough introduction to polymers from a mechanical engineering perspective treating stresses and deformations in structural components made of polymers The authors discuss the time dependent response of polymers and its implications for mechanical response mechanical response for both time dependent and frequency dependent material properties and the application of the stress strain time relation to determine stresses and

deformations in structures With numerous examples and extensive illustrations this book will help advanced undergraduate and graduate students as well as practicing mechanical engineers to make effective use of polymeric materials

Mechanical Properties of Solid Polymers Ian M. Ward, John Sweeney, 2012-10-22 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

Polymers and Their Properties: Fundamentals of structure and mechanics J. W. S. Hearle, 1982 Grady a transgendered high school student yearns for acceptance by his classmates and family as he struggles to adjust to his new identity as a male

Mechanical Properties and Testing of Polymers G.M. Swallowe, 2014-03-14 This volume represents a continuation of the Polymer Science and Technology series edited by Dr D M Brewis and Professor D Briggs The theme of the series is the production of a number of stand alone volumes on various areas of polymer science and technology Each volume contains short articles by a variety of expert contributors outlining a particular topic and these articles are extensively cross referenced References to related topics included in the volume are indicated by bold text in the articles the bold text being the title of the relevant article At the end of each article there is a list of bibliographic references where interested readers can obtain further detailed information on the subject of the article This volume was produced at the invitation of Derek Brewis who asked me to edit a text which concentrated on the mechanical properties of polymers There are already many excellent books on the mechanical properties of polymers and a somewhat lesser number of volumes dealing with methods of carrying out mechanical tests on polymers Some of these books are listed in Appendix 1 In this volume I have attempted to cover basic mechanical properties and test methods as well as the theory of polymer mechanical deformation and hope that the reader will find the approach useful

Statistical Physics of Polymers Toshihiro Kawakatsu, 2004-04-27 From the reviews This book is a very useful addition to polymer literature and it is a pleasure to recommend it to the polymer community J E Mark University of Cincinnati POLYMER NEWS

Application of Fracture Mechanics to Polymers, Adhesives and Composites D R Moore, 2003-12-04 Application of Fracture Mechanics to Polymers Adhesives and Composites

Nano- and Micro-mechanics of Polymer Blends and Composites József Karger-Kocsis, Stoyko Fakirov, 2009 The aim of this book is to give a state of art overview on aspects of micro and nanomechanics of polymers polymeric blends and composites Major issues tackled are the followings experimental

techniques to study the mechanical performance of polymer systems especially in respect with molecular supermolecular and filler architectures on suitable model materials prediction methods of the mechanical performance short and long term properties modeling tools and approaches All these aspects will be highlighted on polymeric systems of both academic and practical relevance The outcome should be a reference book keeping its actuality for at least the next decade

Encyclopedia of Chemical Physics and Physical Chemistry: Applications Nicholas D. Spencer, John H. Moore, 2001

The book delves into Mechanics Of Polymers. Mechanics Of Polymers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mechanics Of Polymers, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Mechanics Of Polymers
- Chapter 3: Mechanics Of Polymers in Everyday Life
- Chapter 4: Mechanics Of Polymers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mechanics Of Polymers. This chapter will explore what Mechanics Of Polymers is, why Mechanics Of Polymers is vital, and how to effectively learn about Mechanics Of Polymers.
3. In chapter 2, the author will delve into the foundational concepts of Mechanics Of Polymers. This chapter will elucidate the essential principles that need to be understood to grasp Mechanics Of Polymers in its entirety.
4. In chapter 3, this book will examine the practical applications of Mechanics Of Polymers in daily life. This chapter will showcase real-world examples of how Mechanics Of Polymers can be effectively utilized in everyday scenarios.
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6. In chapter 5, the author will draw a conclusion about Mechanics Of Polymers. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mechanics Of Polymers.

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