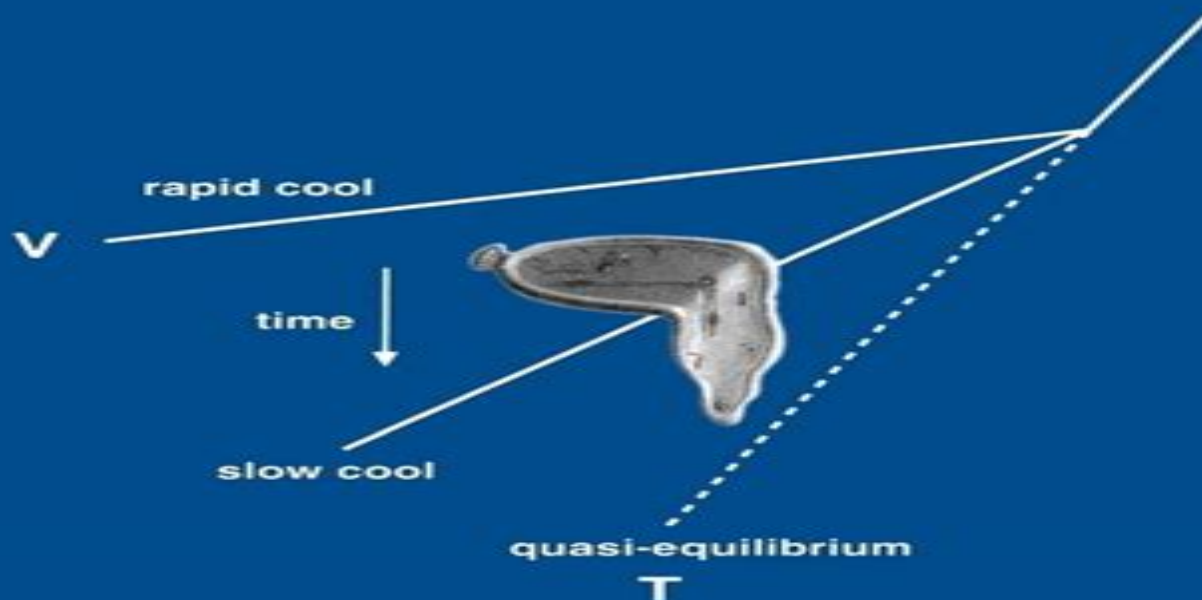


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# Structure and Properties of Glassy Polymers



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# Structure And Properties Of Glassy Polymers

**Anthony S. Fauci**



## **Structure And Properties Of Glassy Polymers:**

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**Structures and Properties of Rubberlike Networks** Burak Erman, James. E. Mark, 1997-07-24 Rubber elasticity is an important sub field of polymer science This book is in many ways a sequel to the authors previous more introductory book Rubberlike Elasticity A Molecular Primer Wiley Interscience 1988 and will in some respects replace the now classic book by L R G Treloar The Physics of Rubber Elasticity Oxford 1975 The present book has much in common with its predecessor in particular its strong emphasis on molecular concepts and theories Similarly only equilibrium properties are covered in any detail Though this book treats much of the same subject matter it is a more comprehensive more up to date and somewhat more sophisticated treatment      Physical Properties of Polymers Handbook James E. Mark, 2007-03-21 This book offers concise information on the properties of polymeric materials particularly those most relevant to physical chemistry and chemical physics Extensive updates and revisions to each chapter include eleven new chapters on novel polymeric structures reinforcing phases in polymers and experiments on single polymer chains The study of complex materials is highly interdisciplinary and new findings are scattered among a large selection of scientific and engineering journals This book brings together data from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials      **The Physics of Glassy Polymers** R. N. Haward, 2011-12-09 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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**Structure and Properties of Amorphous Polymers** Alan G. Walton, 1980 **Mechanical Properties and Testing of Polymers** G.M. Swallowe, 2013-04-17 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

*Structure and Properties of*

*Ionomers* Michel Pineri, Adi Eisenberg, 2012-12-06 Ionomers that is polymers containing a low concentration of charged units along the chain have been the subject of increasing interest during the past twenty years The presence of ionic groups in the polymer changes some of its properties dramatically Increases in the modulus and the viscosity of several orders of magnitude have been observed and changes in the glass transition of hundreds of degrees are possible In addition diffusion coefficients can be modified drastically These changes are due primarily to the presence of reversible ionic cross links in these materials Because of the low dielectric constant of most organic polymers the ions or ionic dipoles tend to aggregate this aggregation process however is limited because the ionic groups are covalently bonded to the organic chain Host of the fundamental research done on these materials has been devoted to a determination of the extent of association the structure of the aggregates the limiting factors and the correlations between molecular and supermolecular structure and the resulting properties

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