

Anelastic and Dielectric Effects in Polymeric Solids

N.G. McCrum, B.E. Read and G. Williams

Although first published over 30 years ago, this book remains unsurpassed as a systematic account of theoretical and experimental studies of polymeric solids using mechanical and dielectric relaxation. It will be of direct interest to chemists, physicists and electrical, mechanical and chemical engineers.

Written specifically as a research text, it incorporates (a) phenomenological and molecular theories for the relaxation behavior of amorphous and crystalline solid polymers and (b) comprehensive documentation of the dynamic mechanical and dielectric properties of most of the solid polymer materials, including comparisons, in widespread use today.

In the early chapters, the authors describe the chemical and physical structure and properties of polymeric solids, the phenomenological and molecular theories of relaxation and experimental methods of the study of anelastic and dielectric relaxation. The treatment is not intended to be exhaustive but to give an introductory account. Later chapters present a comprehensive account of mechanical and dielectric relaxation in all the important classes of polymeric solids. The book is so arranged that the reader interested in a general understanding of mechanical and dielectric relaxation will not have to read beyond Chapter 7.

Widely used as a teaching and research text by polymer chemists, polymer physicists, materials scientists and engineers for more than two decades, this classic text is now widely available in this inexpensive high-quality paperbound edition. It will be welcomed by students taking graduate courses in polymer science and materials science, and will be a ready reference text for the properties of particular classes of solid polymers or of individual solid polymers.

Underlying Dover (1980) republishes of the work published by John Wiley & Sons, London, 1967. Bibliography. Indexes. Tables. 302 black and white illustrations. ix + 607pp. 34 x 96. Paperbound.

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Anelastic And Dielectric Effects In Polymeric Solids

Jun-Wei Zha,Zhi-Min Dang



Anelastic And Dielectric Effects In Polymeric Solids:

Anelastic and Dielectric Effects in Polymeric Solids N. G. McCrum, Bryan Eric Read, Graham Williams, 1967 *Anelastic and Dielectric Effects in Polymeric Solids* Graham Williams, B. E. Read, 1969 **Anelastic and Dielectric Effects in Polymeric Solids [by] N.G. McCrum, B.E. Read [and] G. Williams** N. G. McCrum, 1967 **Static and Dynamic Properties of the Polymeric Solid State** R.A. Pethrick, R.W. Richards, 2012-12-06 This volume contains the major portion of the material given at the NATO Advanced Study Institute held at the University of Strathclyde Glasgow UK September 6th 18th 1981 The original idea germinated in a conversation between the organisers on a cold December night in 1978 in the depths of the Oxfordshire countryside At that time we felt that the chemical physics of macromolecules in the solid state was running on two parallel tracks namely structure and dynamics The contact between the two appeared to be slight We were also concerned that the degree of special knowledge now required for any one technique essentially prevented people from learning the important features of other investigation methods Consequently we have attempted to bring together leading authorities on both structural and dynamic properties of solid polymers in the hope that the combination of both types of discussion will be synergistic The choice of main subjects is our own and we are aware that some areas have been omitted However to be comprehensive would have made an already large volume enormous Y Je therefore chose to concentrate on what were in our opinion the major areas Nonetheless it is apparent that much original material appears here especially in those contributions which are more theoretical in content the full experimental implications of which have yet to be investigated **High Temperature Polymer Dielectrics** Jun-Wei Zha, Zhi-Min Dang, 2023-11-06 High Temperature Polymer Dielectrics Overview on how to achieve polymer dielectrics at high temperatures with emphasis on diverse applications in various electrical insulation fields High Temperature Polymer Dielectrics Fundamentals and Applications in Power Equipment systematically describes the latest research progress surrounding high temperature polymer dielectric HTPD materials and their applications in electrical insulation fields such as high temperature energy storage capacitors motors packaging printed circuit board new energy power equipment and aerospace electrical equipment The comprehensive text provides a description of the market demand and theoretical research value of HTPDs in electrical equipment and enables readers to improve the performance and design of existing HTPD materials and to develop efficient new high temperature polymer dielectric materials in general Specific sample topics covered in High Temperature Polymer Dielectrics include Thermal and electrical properties of high temperature polymers and the excellent thermal stability mechanical properties and long service life of polymer dielectrics Why fluorinated polymers are more thermally stable than their corresponding hydrogen substituted polymers Static Thermomechanical Analysis TMA a technique for measuring the functional relationship between the deformation of the materials and the temperature and time under different actions Polyetheretherketone PEEK a semi crystalline polymer material with ether bonds and ketone carbonyl groups in molecular

chains Providing a complete overview of the state of the art high temperature polymer dielectrics with a focus on fundamental background and recent advances High Temperature Polymer Dielectrics is an essential resource for materials scientists electrical engineers polymer chemists physicists and professionals working in the chemical industry as a whole

Structure And Transport Properties In Organized Polymeric Materials Emo Chiellini,Marco Giordano,Dino Leporini,1998-03-19 This multi authored book includes selected contributions reviewing the results achieved in the synthesis and characterization of organized polymeric materials The focus is on competitive materials with liquid crystalline or electroconductive properties The fine tuning of the properties offered by advanced chemical synthesis has been investigated by a large number of state of the art techniques including both microscopic ESR NMR dielectrometry fluorescence IR Raman spectroscopy and macroscopic calorimetric mechanical methodologies The book also provides an updated coverage of the most challenging applications of organized polymers as functional materials in the fields of electrooptical devices information retrieval and organic electroconductors

Clay-Polymer Nanocomposites Khoulood Jlassi,Mohamed M. Chehimi,Sabu Thomas,2017-07-26 Clay Polymer Nanocomposites is a complete summary of the existing knowledge on this topic from the basic concepts of synthesis and design to their applications in timely topics such as high performance composites environment and energy issues This book covers many aspects of synthesis such as in situ polymerization within the interlamellar spacing of the clays or by reaction of pristine or pre modified clays with reactive polymers and prepolymers Indeed nanocomposites can be prepared at industrial scale by melt mixing Regardless the synthesis method much is said in this book about the importance of the clay pre modification step which is demonstrated to be effective on many occasions in obtaining exfoliated nanocomposites Clay Polymer Nanocomposites reports the background to numerous characterization methods including solid state NMR neutron scattering diffraction and vibrational techniques as well as surface analytical methods namely XPS inverse gas chromatography and nitrogen adsorption to probe surface composition wetting and textural structural properties Although not described in dedicated chapters numerous X ray diffraction patterns of clay polymer nanocomposites and reference materials are displayed to account for the effects of intercalation and exfoliations of layered aluminosilicates Finally multiscale molecular simulation protocols are presenting for predicting morphologies and properties of nanostructured polymer systems with industrial relevance As far as applications are concerned Clay Polymer Nanocomposites examines structural composites such as clay epoxy and clay biopolymers the use of clay polymer nanocomposites as reactive nanocomposite fillers catalytic clay conductive polymers and similar nanocomposites for the uptake of hazardous compounds or for controlled drug release antibacterial applications energy storage and more The most comprehensive coverage of the state of the art in clay polymer nanocomposites from synthesis and design to opportunities and applications Covers the various methods of characterization of clay polymer nanocomposites including spectroscopy thermal analyses and X ray diffraction Includes a discussion of a range of application areas including biomedicine energy

storage biofouling resistance and more *Dielectrics in Electric Fields* Gorur Govinda Raju, 2017-07-28 Dielectrics in Electric Fields explores the influence of electric fields on dielectric i.e. non conducting or insulating materials examining the distinctive behaviors of these materials through well established principles of physics and engineering Featuring five new chapters nearly 200 new figures and more than 800 new citations this fully updated and significantly expanded Second Edition Analyzes inorganic substances with real life applications in harsh working conditions such as outdoor nuclear and space environments Introduces methods for measuring dielectric properties at microwave frequencies presenting results obtained for specific materials Discusses the application of dielectric theory in allied fields such as corrosion studies civil engineering and health sciences Combines in one chapter coverage of electrical breakdown in gases with breakdown in micrometric gaps Offers extensive coverage of electron energy distribution essential knowledge required for the application of plasma sciences in medical science Delivers a detailed review of breakdown in liquids along with an overview of electron mobility providing a clear understanding of breakdown phenomena Explains breakdown in solid dielectrics such as single crystals polycrystalline and amorphous states thin films and powders compressed to form pellets Addresses the latest advances in dielectric theory and research including cutting edge nanodielectric materials and their practical applications Blends early classical papers that laid the foundation for much of the dielectric theory with more recent work The author has drawn from more than 55 years of research studies and experience in the areas of high voltage engineering power systems and dielectric materials and systems to supply both aspiring and practicing engineers with a comprehensive authoritative source for up to date information on dielectrics in electric fields *Introduction to Polymer Viscoelasticity* Montgomery T. Shaw, William J. MacKnight, 2018-06-25 Completely revised and updated the fourth edition of this classic text continues to offer the reader a thorough understanding of viscoelastic behavior essential for the proper utilization of polymers Explains principles corresponding equations and experimental methods with supporting real life applications Adds coverage of measurement techniques nano indentation atomic force microscopy AFM and diffusing wave spectroscopy DWS biopolymer viscoelasticity and the relationship between mechanical polymer properties and viscoelastic functions Has two new sections to address modern areas of viscoelastic measurement large amplitude oscillatory shear LAOS and microrheology Includes problems in the text and an Instructor's Manual including solutions available for adopting professors Prior edition reviews The book is clear written and is appropriate for students in introductory undergraduate courses and for others wanting introduction to the fundamentals of the subject CHOICE December 2005 This book is invariably well written logically organized and easy to follow I highly recommend this book to anyone studying polymer viscoelasticity Polymer News December 2005 **Handbook of Condensation Thermoplastic Elastomers** Stoyko Fakirov, 2006-05-12 Reporting on the work of an international team of scientists actively involved in the study of thermoplastic elastomers TPE based on polyesters polyamides and polyurethanes this book is the first to provide a detailed description of condensation TPE with close attention

paid to polyamide based systems Reflecting the increasing importance of TPE as engineering plastics the authors discuss the widened application opportunities by preparing systems with various chemical compositions and molecular structures as semi interpenetrating networks The contents also cover the chemical aspects physical structure and properties life cycle assessment and recycling possibilities as well as such unique smart properties like the shape memory effect of the three classes of thermoplastic elastomers

Unveiling the Magic of Words: A Overview of "**Anelastic And Dielectric Effects In Polymeric Solids**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Anelastic And Dielectric Effects In Polymeric Solids**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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