

Macromolecular Physics

Bernhard Wunderlich

Volume I

Crystal Structure,
Morphology,
Defects



Macromolecular Physics Volume I Crystal Structure

Morphology Defects

Rachel S Tattersall



Macromolecular Physics Volume I Crystal Structure Morphology Defects:

Macromolecular Physics V1 Bernhard Wunderlich, 1973-01-01 Macromolecular Physics Volume 1 Crystal Structure Morphology Defects provides a unified treatment of crystals of linear macromolecules This book is organized into four chapters structure of macromolecules microscopic structure of crystals crystal morphology and defect crystal This publication specifically discusses the macromolecular hypothesis molecular conformation and synthesis of macromolecules The discovery and proof of the lattice theory structures of minimum free energy and crystal structures of macromolecules are also deliberated This publication likewise covers the macromolecular crystals macroscopic recognition of defects and deformation of polymer crystals This volume is a good reference for physicists scientists and specialists concerned with research on crystals of linear macromolecules Macromolecular Physics, Volume 1: Crystal Structure, Morphology, Defects B. Wunderlich, 1973

Macromolecular physics. vol. 1 Bernhard Wunderlich, 1973 **Thermal Analysis of Polymeric Materials** Bernhard Wunderlich, 2005-04-04 Table of Contents Table of Contents 1 Atoms small and large molecules 2 Basics of thermal analysis 3 Dynamics of chemical and phase changes 4 Thermal analysis tools 5 Structure and properties of materials 6 Single component materials 7 Multiple component materials App A 1 Table of thermal properties of linear macromolecules and related small molecules the ATHAS data bank App A 2 Radiation scattering App A 3 Derivation of the Rayleigh ratio App A 4 Neural network predictions App A 5 Legendre transformations Maxwell relations linking of entropy and probability and derivation of dS/dT App A 6 Boltzmann distribution harmonic vibration complex numbers and normal modes App A 7 Summary of the basic kinetics of chemical reactions App A 8 The ITS 1990 and the Krypton 86 length standard App A 9 Development of classical DTA to DSC App A 10 Examples of DTA and DSC under extreme conditions App A 11 Description of an online correction of the heat flow rate App A 12 Derivation of the heat flow equations App A 13 Description of sawtooth modulation response App A 14 An introduction to group theory definitions of configurations and conformations and a summary of rational and irrational numbers App A 15 Summary of birefringence and polarizing microscopy App A 16 Summary of X ray diffraction and interference effects App A 17 Optical analog of electron double diffraction to produce Moire patterns

Macromolecular Physics V2 Bernhard Wunderlich, 2012-12-02 Macromolecular Physics Volume 2 Crystal Nucleation Growth Annealing continues the discussion of crystals of linear macromolecules The text also gives conclusion about the description and formation of crystals The book covers topics such as the primary secondary and tertiary nucleation of crystals the general growth of crystals solution and melt crystallization of macromolecules and the general annealing of crystals For those who wish to do further reading the table of contents of Volume 1 is included in the book The text is recommended for macromolecular physicists especially those whose focus is on the study of crystals and its different properties *Crystallography and Crystal Defects* Anthony Kelly, Kevin M.

Knowles, 2012-02-13 Extensively revised and updated this new edition of a classic text presents a unified approach to

crystallography and to the defects found within crystals The book combines the classical and exact description of symmetry of a perfect crystal with the possible geometries of the major defects dislocations stacking faults point defects twins interfaces and the effects of martensitic transformations A number of important concepts and exciting new topics have been introduced in this second edition including piezoelectricity liquid crystals nanocrystalline concepts incommensurate materials and the structure of foamed and amorphous solids The coverage of quasicrystalline materials has been extended and the data tables appendices and references have been fully updated Reinforcing its unrivalled position as the core text for teaching crystallography and crystal defects each chapter includes problem sets with brief numerical solutions at the end of the book Detailed worked solutions supplementary lecture material and computer programs for crystallographic calculations are provided online <http://booksupport.wiley.com>

Ordering in Macromolecular Systems Akio Teramoto, Masamichi Kobayashi, Takashi Norisuye, 2012-12-06 This volume summarizes the papers presented at the First Osaka University Macromolecular Symposium OUMS 93 on Ordering in Macromolecular Systems which was held at Senri Life Science Center Osaka Japan on June 3 through June 6 1993 The symposium covered the three topics 1 Crystallization and Phase Transitions 2 Polymer Liquid Crystals and 3 Block Copolymers Polymer Blends and Surfaces and invited leading scientists in these fields At present any of these topics is a hot issue in itself and frequently taken up separately in many occasions It is noted however that all these topics are correlated with each other with the keyword Ordering and their combination provides a unique feature of the present symposium in reflecting the interactions among investigators working in these important fields with the common ground expressed by the keyword Ordering Nineteen invited lectures and 40 posters of both experiment and theory were presented at the symposium and the eighteen lectures and ten poster presentations contribute to this volume In the first topic crystal structures and their transitions were discussed from kinetic as well as static points of view attention was paid to give a molecular level interpretation of the structure phase transition and physical properties using theories and simulations The second topic was mainly concerned with static structures and thermodynamic properties of polymer liquid crystals including phase behaviours

Polymer Morphology Qipeng Guo, 2016-03-21 With a focus on structure property relationships this book describes how polymer morphology affects properties and how scientists can modify them The book covers structure development theory simulation and processing and discusses a broad range of techniques and methods Provides an up to date comprehensive introduction to the principles and practices of polymer morphology Illustrates major structure types such as semicrystalline morphology surface induced polymer crystallization phase separation self assembly deformation and surface topography Covers a variety of polymers such as homopolymers block copolymers polymer thin films polymer blends and polymer nanocomposites Discusses a broad range of advanced and novel techniques and methods like x ray diffraction thermal analysis and electron microscopy and their applications in the morphology of polymer materials

An Introduction to Polymer Physics David I. Bower, 2002-05-30 Publisher Description **Polymer Fracture**

Hans-Henning Kausch, 2012-12-06 The first edition of this book had been written with the special aim to provide the necessary information for an understanding of the deformation and scission of chain molecules and its role in polymer fracture In this field there had been an intense activity in the sixties and early seventies The new results from spectroscopical ESR IR and fracture mechanics methods reported in the first edition had complemented in a very successful way the conventional interpretations of fracture behavior The extremely friendly reception of this book by the polymer community has shown that the subject was timely chosen and that the treatment had satisfied a need In view of the importance of a molecular interpretation of fracture phenomena and of the continued demand for this book which still is the only one of its kind a second edition has become necessary The aims of the second edition will be similar to those of the first it will be attempted to reference and evaluate completely the literature on stress induced chain scission now up to 1985 86 References on other subjects such as morphology viscoelasticity plastic deformation and fracture mechanics where the treatment was never meant to be exhaustive have remained selective but they have been updated

Low-Temperature Behaviour of Elastomers Maya F. Bukhina, Mariya F. Faddeevna Bukhina, Sergei K. Kurlyand, 2007-11 This book focuses on the effect the composition of rubbers and the conditions of their processing have on low temperature resistance It considers the nature and development of two physical processes glass transition and crystallization determining low temperature behavior of elastomers The book addresses the effects of deformation pressure and temperature on these processes It discusses the contribution of different factors in frost resistance of elastomeric materials and articles and the possibility of increasing frost resistance by optimization of composition and design

Supramolecular Materials and Technologies David N. Reinhoudt, 2008-04-30 Perspectives in Supramolecular Chemistry relates recent developments and new exciting approaches in supramolecular chemistry The series covers all areas from theoretical and modelling aspects through organic and inorganic chemistry and biochemistry to materials solid state and polymer sciences reflecting the many and varied applications of supramolecular structures in modern chemistry From the early days of supramolecular chemistry the field has been associated with possible applications This is not surprising as the design of new molecules and later of assemblies of molecules is often function driven Now after three decades of supramolecular chemistry David Reinhoudt has brought together a collection of reviews to reflect on the applications that have actually been achieved The first applications in molecular recognition are now established technologies in analytical chemistry separation science and medicine More recently developments have taken place in material design and these concepts are also discussed here Contents Self Assembling Systems on Scales from Nanometers to Millimeters Design and Discovery Dendritic Architectures Supramolecular Structures with Macromolecules Chemosensors Synthetic Receptors in Analytical Sensing Applications Selective Ion Recognition with Durable Sensors Ion Separations in Membrane and Solid Phase Extraction Systems Porphyrin and Expanded Porphyrin Based Diagnostic and Therapeutic Agents Supramolecular Materials and Technologies illustrates the

achievements and advances that supramolecular chemistry has made in many fields from organic chemistry to materials science and from analytical chemistry to molecular biology

Handbook of Thermal Analysis and Calorimetry, 2018-03-12
 Handbook of Thermal Analysis and Calorimetry Recent Advances Techniques and Applications Volume Six Second Edition presents the latest in a series that has been well received by the thermal analysis and calorimetry community This volume covers recent advances in techniques and applications that complement the earlier volumes There has been tremendous progress in the field in recent years and this book puts together the most high impact topics selected for their popularity by new editors Sergey Vyazovkin Nobuyoshi Koga and Christoph Schick all editors of Thermochimica Acta Among the important new techniques covered are biomass conversion sustainable polymers polymer nanocomposites nonmetallic glasses phase change materials propellants and explosives applications to pharmaceuticals processes in ceramics metals and alloys ionic liquids fast scanning calorimetry and more Features 19 all new chapters to bring readers up to date on the current status of the field Provides a broad overview of recent progress in the most popular techniques and applications Includes chapters authored by a recognized leader in each field and compiled by a new team of editors each with at least 20 years of experience in the field of thermal analysis and calorimetry Enables applications across a wide range of modern materials including polymers metals alloys ceramics energetics and pharmaceuticals Overviews the current status of the field and summarizes recent progress in the most popular techniques and applications

Inorganic Polymers James E. Mark, Harry R. Allcock, Robert West, 2005-04-21
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Crystals and Crystallinity in Polymers Claudio De Rosa, Finizia Auriemma, 2013-08-26
 Provides the tools needed to master and apply the fundamentals of polymer crystallography Using core concepts in physics chemistry polymer science and engineering this book sheds new light on the complex field of polymer crystallography enabling readers to evaluate polymer crystallization data and determine the best methods to use for their investigations The authors set forth a variety of tested and proven methods for analyzing ordered and disordered structures in polymer crystals including X ray diffraction electron diffraction and microscopy In addition to the basics the book explores several advanced and emerging topics in the field such as symmetry breaking frustration and the principle of density driven phase formation Crystals and Crystallinity in Polymers introduces two new concepts in crystallinity and crystals in synthetic polymers First crystallinity in polymeric materials is compatible with the absence of true three dimensional long range order Second the disorder may be described as a structural feature using the methods of X ray scattering and electron diffraction analysis The

book begins by introducing the basic principles and methods for building structural models for the conformation of polymer crystal chains Next it covers Packing of macromolecules in polymer crystals Methods for extracting structural parameters from diffraction data Defects and disorder in polymer crystals Analytical methods for diffuse scattering from disordered polymer structures Crystal habit Influence of crystal defects and structural disorder on the physical and mechanical properties of polymeric materials Crystals and Crystallinity in Polymers examines all the possible types of structural disorder generally present in polymer crystals and describes the influence of each kind of disorder on X ray and electron diffraction patterns Its comprehensive expert coverage makes it possible for readers to learn and apply the fundamentals of polymer crystallography to solve a broad range of problems

Phase Transitions in Polymers: The Role of Metastable States Stephen Z.D. Cheng, 2008-09-10 A classical metastable state possesses a local free energy minimum at infinite sizes but not a global one This concept is phase size independent We have studied a number of experimental results and proposed a new concept that there exists a wide range of metastable states in polymers on different length scales where their metastability is critically determined by the phase size and dimensionality Metastable states are also observed in phase transformations that are kinetically impeded on the pathway to thermodynamic equilibrium This was illustrated in structural and morphological investigations of crystallization and mesophase transitions liquid liquid phase separation vitrification and gel formation as well as combinations of these transformation processes The phase behaviours in polymers are thus dominated by interlinks of metastable states on different length scales This concept successfully explains many experimental observations and provides a new way to connect different aspects of polymer physics Written by a leading scholar and industry expert Presents new and cutting edge material encouraging innovation and future research Connects hot topics and leading research in one concise volume

Polymer Colloids Rodney Priestley, Robert Prud'homme, 2019-12-02 Academic and industrial research around polymer based colloids is huge driven both by the development of mature technologies e g latexes for coatings as well as the advancement of new materials and applications such as building blocks for 2D 3D structures and medicine Edited by two world renowned leaders in polymer science and engineering this is a fundamental text for the field Based on a specialised course by the editors this book provides the reader with an invaluable single source of reference The first section describes formation explaining basic properties of emulsions and dispersion polymerization microfluidic approaches to produce polymer based colloids and formation via directed self assembly The next section details characterisation methodologies from microscopy and small angle scattering to surface science and simulations The final chapters close with applications including Pickering emulsions and molecular engineering for materials development A comprehensive guide to polymer colloids with contributions by leaders in their respective areas this book is a must have for researchers and practitioners working across polymers soft matter and chemical and molecular engineering

IUTAM Symposium on Micromechanics of Plasticity and Damage of Multiphase Materials André Pineau, André Zaoui, 2012-12-06 The IUT AM Symposium on Micromechanics of

Plasticity and Damage of Multiphase Materials was held in Sevres Paris France 29 August 1 September 1995 The Symposium was attended by 83 persons from 18 countries In addition 17 young French students attended the meeting During the 4 day meeting a total of 55 papers were presented including 24 papers in the poster sessions The meeting was divided into 7 oral and 3 poster sessions The 7 oral sessions were the following Plasticity and Viscoplasticity I and II Phase transformations Damage I and II Statistical and geometrical aspects Cracks and interfaces Each poster session was introduced by a Rapporteur as follows Session I Plasticity and Viscoplasticity G Cailletaud Session 2 Damage D Franc ois Session 3 Phase transformation statistical and geometrical aspects D Jeulin The main purpose of the Symposium was the discussion of the state of the art in the development of micromechanical models used to predict the macroscopic mechanical behaviour of mUltiphase solid materials These materials consist of at least two chemically different phases present either initially or formed during plastic deformation when a strain induced phase transformation takes place One session was devoted to the latter case Continuously strengthened composite materials containing long fibers were out of the scope of the Symposium

Crystallization as Studied by Broadband Dielectric Spectroscopy Tiberio A. Ezquerra,Aurora Nogales,2020-10-28

This book presents new approaches that offer a better characterization of the interrelationship between crystalline and amorphous phases In recent years the use of dielectric spectroscopy has significantly improved our understanding of crystallization The combination of modern scattering methods using either synchrotron light or neutrons and infrared spectroscopy with dielectrics is now helping to reveal modifications of both crystalline and amorphous phases In turn this yields insights into the underlying physics of the crystallization process in various materials e g polymers liquid crystals and diverse liquids The book offers an excellent introduction to a valuable application of dielectric spectroscopy and a helpful guide for every scientist who wants to study crystallization processes by means of dielectric spectroscopy Interphases and Mesophases in Polymer Crystallization III Giuseppe Allegra,2005-12-02 With contributions by numerous experts

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