

Macromolecular Physics

Bernhard Wunderlich

Volume I

Crystal Structure,
Morphology,
Defects



Macromolecular Physics Volume I Crystal Structure Morphology Defects

**Ulf W. Gedde, Mikael S.
Hedenqvist, Mats Johansson, Lars
Berglund, Jakob Wohler**

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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

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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

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

Fundamental Polymer Science Ulf W. Gedde, Mikael S. Hedenqvist, Mats Johansson, Lars Berglund, Jakob Wohler, 2025-10-24 This successor to the popular textbook *Polymer Physics* Springer 1999 is the result of a quarter century of teaching experience as well as critical comments from specialists in the various sub fields resulting in better explanations and more complete coverage of key topics With a new chapter on polymer synthesis the perspective was broadened in the second edition to encompass all of polymer science The third edition contains substantial information about polysaccharides and proteins included in essentially all chapters Cheap computing power has greatly expanded the role of simulation and modelling in the past decades which is reflected in many of the chapters Additional problems and carefully prepared graphics

aid have been added Note the availability at Springer of the companion books by the same authors Essential Classical Thermodynamics 2020 and Applied Polymer Science 2021 Two principles are key to the textbook s appeal 1 Students learn that independent of the origin of the polymer synthetic or native the same general laws apply and 2 students should benefit from the book without an extensive knowledge of mathematics Taking the reader from the basics to an advanced level of understanding the text meets the needs of a wide range of students in chemistry physics materials science biotechnology and civil engineering and is suitable for both masters and doctoral level students Praise for the previous edition an excellent book well written authoritative clear and concise and copiously illustrated with appropriate line drawings graphs and tables Polymer International an extremely useful book It is a pleasure to recommend it to physical chemists and materials scientists as well as physicists interested in the properties of polymeric materials Polymer News This valuable book is ideal for those who wish to get a brief background in polymer science as well as for those who seek a further grounding in the subject Colloid Polymer Science The solutions to the exercises are given in the final chapter making it a well thought out teaching text Polymer Science

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

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

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Macromolecular Physics Volume I Crystal Structure Morphology Defects**

In a global inundated with screens and the cacophony of quick communication, the profound power and mental resonance of verbal art usually diminish into obscurity, eclipsed by the constant barrage of noise and distractions. Yet, nestled within the lyrical pages of **Macromolecular Physics Volume I Crystal Structure Morphology Defects**, a captivating function of literary beauty that pulses with natural emotions, lies an wonderful journey waiting to be embarked upon. Written with a virtuoso wordsmith, that exciting opus instructions readers on a psychological odyssey, lightly revealing the latent potential and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central styles, dissect its fascinating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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