

# Crystallization of Polymers

SECOND EDITION

**Volume 1**  
Equilibrium Concepts

LEO MANDELKERN

CAMBRIDGE



# Crystallization Of Polymers Equilibrium Concepts

**Günter Reiter, Jens-Uwe Sommer**



## **Crystallization Of Polymers Equilibrium Concepts:**

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**Crystallization of Polymers: Volume 1, Equilibrium Concepts** Leo Mandelkern, 2002-09-19 First published in 2002 from an original 1964 edition in the Crystallization of Polymers 2nd edition Leo Mandelkern provides a self contained treatment of polymer crystallization All classes of macromolecules are included and the approach is through the basic disciplines of chemistry and physics The book discusses the thermodynamics and physical properties that accompany the morphological and structural changes that occur when a collection of molecules of very high molecular weight are transformed from one state to another Volume 1 is a presentation of the equilibrium concepts that serve as a basis for the subsequent volumes In this volume the author shows that knowledge of the equilibrium requirements is vital to understanding all aspects of the polymer crystallization process and the final state that eventually evolves This book will be an invaluable reference work for all chemists physicists and materials scientists who work in the area of polymer crystallization

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Crystallization of Polymers: Volume 2, Kinetics and Mechanisms Leo Mandelkern, 2004-09-30 In Crystallization of Polymers 2nd Edition Leo Mandelkern provides a self contained comprehensive and up to date treatment of polymer crystallization Volume 2 of this edition provides an authoritative account of the kinetics and mechanisms of polymer crystallization building from the equilibrium concepts presented in volume 1 As crystalline polymers rarely if ever achieve their equilibrium state this books serves as a bridge between equilibrium concepts and the state that is finally achieved With a comprehensive treatment of the surrounding theories and experimental results from simple to complex polymer systems this book will be an invaluable reference work for all chemists physicists and materials scientists working in the area of polymer crystallization

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**Crystallization in Multiphase Polymer Systems** Sabu Thomas, Mohammed Arif P., E. Bhoje Gowd, Nandakumar Kalarikkal, 2017-09-15 Crystallization in Multiphase Polymer Systems is the first book that explains in

depth the crystallization behavior of multiphase polymer systems. Polymeric structures are more complex in nature than other material structures due to their significant structural disorder. Most of the polymers used today are semicrystalline and the subject of crystallization is still one of the major issues relating to the performance of semicrystalline polymers in the modern polymer industry. The study of the crystallization processes, crystalline morphologies and other phase transitions is of great significance for the understanding the structure-property relationships of these systems. Crystallization in block copolymers, miscible blends, immiscible blends and polymer composites and nanocomposites is thoroughly discussed and represents the core coverage of this book. The book critically analyzes the kinetics of nucleation and growth process of the crystalline phases in multi-component polymer systems in different length scales from macro to nanoscale. Various experimental techniques used for the characterization of polymer crystallization process are discussed. Written by experts in the field of polymer crystallization, this book is a unique source and enables professionals and students to understand crystallization behavior in multiphase polymer systems such as block copolymers, polymer blends, composites and nanocomposites. Covers crystallization of multiphase polymer systems including copolymers, blends and nanocomposites. Features comprehensive, detailed information about the basic research, practical applications and new developments for these polymeric materials. Analyzes the kinetics of nucleation and growth process of the crystalline phases in multi-component polymer systems in different length scales from macro to nanoscale.

**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.

*Equilibrium Concepts* Leo Mandelkern, 2002

**Polymer Crystallization** Günter Reiter, Jens-Uwe Sommer, 2003-05-06

The classical view on polymer crystallization basically focused on the explanation of a few macroscopically observable parameters like the thickness of the resulting lamellar structure and the corresponding growth rates. However, the emerging paradigm for the description of chain crystals is too simple and cannot account for the complex non-equilibrium processes responsible for structure formation on various levels ranging from the nanometer up to the millimeter scale. This complexity detected by several novel experimental results led to a renewed interest in this old topic of polymer crystallization. These new findings concern the early stages of the crystallization process, crystal formation in confined geometries like ultra-thin films and the competition between micro-phase separation and crystallization in copolymers and blends. In particular, high spatial

resolution techniques such as atomic force microscopy provided deeper insight into the molecular organization of crystallizable polymers Computer simulations based on microscopic processes were used to improve our understanding of how polymer crystals are nucleated and how they grow New ideas emerged about possible multistage pathways which are followed during the formation of polymer lamellae The importance and the consequences of the non equilibrium character of polymer crystals got significantly more attention Links and analogies to growth phenomena and pattern formation in general are being developed However these ideas are still subject of intensive and controversial discussions

**Crystallization of Polymers: Volume 2, Kinetics and Mechanisms** Leo Mandelkern, 2012-07-19 This new edition of Volume 2 of Leo Mandelkern's self contained work is an up to date authoritative account of the kinetics and mechanisms of polymer crystallization Progressing from the equilibrium concepts presented in volume 1 it provides a comprehensive treatment of the surrounding theories and experimental results from simple to complex polymer systems The volume will be an invaluable reference work for all chemists physicists and materials scientists working in the area of polymer crystallization

**Polymer Physics** Wenbing Hu, 2012-11-05 A molecular view on the fundamental issues in polymer physics is provided with an aim at students in chemistry chemical engineering condensed matter physics and material science courses An updated translation by the author a renowned Chinese chemist it has been proven to be an effective source of learning for many years Up to date developments are reflected throughout the work in this concise presentation of the topic The author aims at presenting the subject in an efficient manner which makes this particularly suitable for teaching polymer physics in settings where time is limited without having to sacrifice the extensive scope that this topic demands

**In-situ Structure Characterization of Elastomers during Deformation and Fracture** Karsten Brüning, 2014-06-21 This thesis offers novel insights into the time dependent structural evolution of polymers under deformation In situ tensile experiments at high brilliance synchrotron sources allowed to characterize the material with unrivaled resolution in time and space The strain induced crystallization in natural rubber was studied by wide angle X ray diffraction Special emphasis was put on the establishment of new structure property relationships to give a more in depth understanding of the mechanical performance of rubber parts e.g. in tear fatigue loading To this end the kinetics of strain induced crystallization were investigated subjecting the material to high strain rates The local structure around a crack tip was observed by scanning wide angle X ray diffraction Ultra small angle X ray scattering served to study filled elastomers under deformation from specially prepared model filler systems to industrially relevant carbon black filled rubbers Other methods include electron microscopy coupled with in situ tensile testing and optical dilatometry to examine cavitation in rubbers The underlying theory as well as a literature review are covered by an extensive introductory chapter followed by a description of the experimental techniques The results are presented in more detail than in the original journal publications

**Compatibilization of Polymer Blends** Ajitha A. R, Sabu Thomas, 2019-10-10 Compatibilization of Polymer Blends Micro and Nano Scale Phase Morphologies Interphase

Characterization and Properties offers a comprehensive approach to the use of compatibilizers in polymer blends examining both fundamental and advanced knowledge in the field. The book begins by introducing polymer blends describing thermodynamics, miscibility, and phase separation, and explaining the main concepts of compatibilization. Other sections cover theoretical approaches for nearly compatible blends, incompatible blends, nanofillers, physical compatibilization, reactive compatibilization, morphological and structural characterization, and physico-mechanical characterization. Finally, key application areas are covered, including biomedical applications, packaging, and automobile engineering. While this book will be a highly valuable reference source for academics, researchers, and postgraduate students interested in polymer blends, it will also be ideal for anyone involved in the fields of polymer science, polymer chemistry, polymer physics, materials science, scientists, R & D professionals, and engineers involved in the development or engineering of polymer products. Offers detailed and systematic coverage of essential and advanced topics relating to the compatibilization of polymer blends. Presents a critical analysis of the effect of compatibilization on morphology and thermal, mechanical, electrical, and viscoelastic properties of polymer blends. Draws on novel studies and state-of-the-art research, discussing the latest issues and developments.

**Polymer Crystallization** Günter Reiter, Jens-Uwe Sommer, 2014-10-02

**Controlling the Morphology of Polymers** Geoffrey R. Mitchell, Ana Tojeira, 2016-09-06. This book focuses on controlling morphology at different scales for polymers. The authors explain the need for successful control of morphology to yield target macroscopic physical properties in the application of polymers to diverse areas such as engineering materials, nanodielectrics, and photonic crystals. The book combines specialized chapters with an introduction to the morphology of polymers and the range of experimental techniques available to evaluate it.

Macromolecules, Volume 3 Hans-Georg Elias, 2005. Providing a broad survey of the entire field, *Macromolecules* integrates representations of chemistry, physics, and technology, as well as including precise descriptions of basic phenomena and balanced treatments of facts and theory.

**Materials World**, 2003

*Thermodynamics of the Polymerization of Protein* Fumio Oosawa, Sho Asakura, 1975

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**Morphology of Polymers** Blahoslav Sedláček, 1986

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