

Handbook Of Polymer Crystallization

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The only comprehensive reference on polymer crystallization, Handbook of Polymer Crystallization provides readers with a broad, in-depth guide on the subject, covering the numerous problems encountered during crystallization as well as solutions to resolve those problems to achieve the desired result. Edited by leading authorities in the field, topics explored include neat polymers, heterogeneous systems, polymer blends, polymer composites orientation induced crystallization, crystallization ...

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Handbook of polymer crystallization / edited by Ewa Piorkowska, Polish Academy of Sciences, Centre of Molecular and Macromolecular Studies, Lodz, Poland and Gregory C. Rutledge, Massachusetts Institute of Technology, Department of Chemical Engineering, Cambridge, MA,

HANDBOOK OF POLYMER CRYSTALLIZATION

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Abstract This chapter describes the principle, recent developments, and selected applications of some commonly used experimental techniques for characterizing semicrystalline polymers.

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Handbook of polymer crystallization / edited by Ewa Piorkowska, Page 4/11. Download Free Handbook Of Polymer Crystallization Polish Academy of Sciences, Centre of Molecular and Macromolecular Studies, Lodz, Poland and Gregory C. Rutledge, Massachusetts Institute of Technology, Department of Chemical

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The chapter covers only block copolymers with homogeneous or weakly segregated melts such that crystallization is always the dominant factor in determining solid‐state morphology. The presence of order in the melt, even if the segregation strength is weak, hinders the development of the equilibrium spacing in the block copolymer solid‐state structure.

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Handbook of Polymer Crystallization

Analyzes the existing literature and provides guidance on optimal selection of nucleating agents in order to increase production rates, improve the mechanical performance, and reduce the haze of polymeric products

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Volume B forms one volume of a Handbook about Polymer Nanocomposites. Volume B deals with Carbon nanotube based polymer composites. The preparation, architecture, characterisation, properties and application of polymer nanocomposites are discussed within some 25 chapters. Each chapter has been authored by experts in the respective field.

Handbook of Polymer Crystallization

UHMWPE Biomaterials Handbook describes the science, development, properties and application of ultra-high molecular weight polyethylene (UHMWPE) used in artificial joints. This material is currently used in 1.4 million patients around the world every year for use in the hip, knee, upper extremities, and spine. Since the publication of the 1st edition there have been major advances in the development and clinical adoption of highly crosslinked UHMWPE for hip and knee replacement. There has also been a major international effort to introduce Vitamin E stabilized UHMWPE for patients. The accumulated knowledge on these two classes of materials are a key feature of the 2nd edition, along with an additional 19 additional chapters providing coverage of the key engineering aspects (biomechanical and materials science) and clinical/biological performance of UHMWPE, providing a more complete reference for industrial and academic materials specialists, and for surgeons and clinicians who require an understanding of the biomaterials properties of UHMWPE to work successfully on patient applications. The UHMWPE Handbook is the comprehensive reference for professionals, researchers, and clinicians working with biomaterials technologies for joint replacement New to this edition: 19 new chapters keep readers up to date with this fast moving topic, including a new section on UHMWPE biomaterials; highly crosslinked UHMWPE for hip and knee replacement; Vitamin E stabilized UHMWPE for patients; clinical performance, tribology a biologic interaction of UHMWPE State-of-the-art coverage of UHMWPE technology, orthopedic applications, biomaterial characterisation and engineering aspects from recognised leaders in the field

Handbook of Polymer Crystallization

Volume A of Handbook of Polymer Nanocomposites deals with Layered Silicates. In some 20 chapters the preparation, architecture, characterisation, properties and application of polymer nanocomposites are discussed by experts in their respective fields

Handbook of Polymer Crystallization

The series Advances in Polymer Science presents critical reviews of the present and future trends in polymer and biopolymer science. It covers all areas of research in polymer and biopolymer science including chemistry, physical chemistry, physics, material science. The thematic volumes are addressed to scientists, whether at universities or in industry, who wish to keep abreast of the important advances in the covered topics. Advances in Polymer Science enjoys a longstanding tradition and good reputation in its community. Each volume is dedicated to a current topic, and each review critically surveys one aspect of that topic, to place it within the context of the volume. The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically, presenting selected examples, explaining and illustrating the important principles, and bringing together many important references of primary literature. On that basis, future research directions in the area can be discussed. Advances in Polymer Science volumes thus are important references for every polymer scientist, as well as for other scientists interested in polymer science - as an introduction to a neighboring field, or as a compilation of detailed information for the specialist. Review articles for the individual volumes are invited by the volume editors. Single contributions can be specially commissioned. Readership: Polymer scientists, or scientists in related fields interested in polymer and biopolymer science, at universities or in industry, graduate students

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"Offers detailed coverage of applied polymer processing--presenting a wide range of technologies and furnishing state-of-the-art data on polymer components, properties, and processibility. Reviews fundamental rheological concepts. Contains over 1600 bibliographic citations, some 450 equations, and over 400 tables, drawings, and photographs."

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