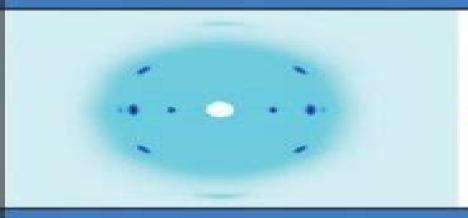
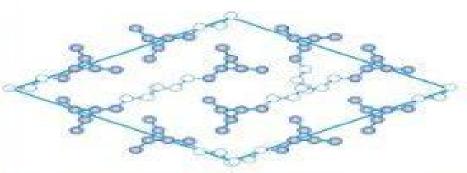
# Crystals and Crystallinity in Polymers

DIFFRACTION ANALYSIS OF ORDERED
AND DISORDERED CRYSTALS





Claudio De Rosa AND Finizia Auriemma

WILEY

**Valerio Causin** 

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 Crystals and Crystallinity in Polymers Claudio De Rosa, Finizia Auriemma, 2013-11-04 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 Polypropylene Handbook József Karger-Kocsis, Tamás Bárány, 2019-03-18 This book extensively reviews Polypropylene PP the second most widely produced thermoplastic material having been produced for over 60 years Its synthesis processing and application are still accompanied by vigorous R D developments because the properties of PP are at the borderline between those of commodity and engineering thermoplastics Readers are introduced to various tacticities and polymorphs of PP and their effects on structural properties Further the book addresses the control of optical properties using nucleants provides strategies for overcoming the limited cold impact resistance of PP examines in detail the effects of recycling and presents guidelines for the property modification of PPs through foaming filling and reinforcing with respect to target applications Special attention is paid to descriptions and models of properties as a function of morphological variables Last but not least the book suggests potential practical applications of PP based systems especially in the packaging appliances building construction textile and automotive sectors Each chapter written by internationally respected scientists reflects the current state of art in the respective field and offers a vital source of information for students researchers and engineers interested in the morphology properties testing and modeling of PP and PP based systems The content is indispensable to the appropriate application of PPs and related composites **Structure** Siba Prasad Mishra, 2016-07-06 Fibre Structure states that each and every fibre from their manufacturing man made fibres or during development natural fibres creates and develops its own and specialized structure It might be the chemical structure crystalline structure amorphous structure and or morphology This structure can be modified during processing The structure equally influences the processing conditions as well as the properties of the fibre With this background the present book deals with different fibres and their structures Different aspects of structure are dealt separately in a concise and compact manner This will serve as a reference for researchers technologists as well as professionals as a reference book to know about the structure of different fibres and their measurement Polvmer Crystallization I Finizia Auriemma, Giovanni Carlo Alfonso, Claudio De Rosa, 2016-12-21 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

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Fundamentals of Drug Delivery covers the fundamental principles advanced methodologies and technologies employed by pharmaceutical scientists researchers and pharmaceutical industries to transform a drug candidate or new chemical entity into a final administrable drug delivery system The book also covers various approaches involved in optimizing the therapeutic performance of a biomolecule while designing its appropriate advanced formulation Provides up to date information on translating the physicochemical properties of drugs into drug delivery systems Explores how drugs are administered via various routes such as orally parenterally transdermally or through inhalation Contains extensive references and further reading for course and self study

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