# 5.3.3 Stereo-regular Polymers

In stereo-regular polymers, each monomer segment is in a regular configuration, giving a define structural regularity to the polymer molecule as a whole. This structural regularity, in a polymer may arise due to what are termed as "optical" and "geometric" isomerisms of the main chain atoms or substituents in the polymer molecule. The meaning of these two isomerisms is now explained.

# Optical Isomerism

Optical isomerism has its origin in the way different substituents sit on an asymmetric carbon atom in a polymer molecule. We will give an example. A polyethylene molecule has fully saturated carbon atoms with the following chemical formula:

We can write this formula in a linear structural way, showing how various atoms are attached (but without bothering about the bond angles and molecular plane) as follows:

Let us now assume that the carbon-carbon bonds are all on the plane of this paper and that the bonds between the carbon atom and its substituent atoms are either below or above the plane of the paper. The structure of polyethylene in a planar zig-zag configuration is then as shown in Fig. 5.6. In doing this, of course, we have not bothered about the free rotation around each carbon-carbon single bond and the various resultant spatial positions of the polymer segment. It is seen from Fig. 5.6 that all carbon atoms are attached to each other through single bonds which are arranged in a zig-zag manner considering their bond angles. All carbon atoms lie in the plane of the paper but hydrogen atoms

# **Stereoregular Polymers Stereospec Volume 2**

F. Danusso, G. Natta

## **Stereoregular Polymers Stereospec Volume 2:**

Stereoregular Polymers and Stereospecific Polymerizations Giulio Natta, Ferdinando Danusso, 2013-09-24 Stereoregular Polymers and Stereospecific Polymerizations Volume 2 covers the reactions and physico chemical properties of various polymers This volume is divided into 88 chapters and starts with the survey of the molecular structure stereospecific polymerization and reaction kinetics of styrene Considerable chapters are devoted to copolymerization reaction crystallinity of block copolymers and molecular weight and isotactic behavior determination Other chapters examine other polymer properties such as elastomeric activity enthalpy entropy and resonance of energy This book also considers the polymerization of vinyl monomers conjugated diolefins and butadienes These topics are followed by presentations of various metallic complexes as polymerization reaction catalysts The remaining chapters describe the proposed nomenclature of polymer products obtained from other stereospecific polymerization reactions This book will prove useful to polymer chemists

Stereoregular Polymers and Stereospecific Polymerizations, Volume 2 F. Danusso, G. Natta, 1967 Physics of Carbon Walker, 1975-09-01 This book provides a comprehensive and critical overview of carbon materials in terms of molecular structure intermolecular relationships bulk and surface properties and their behavior in current and emerging applications It also presents advances in carbon research and development Preparation and Properties of Stereoreaular Polymers R.W. Lenz, F. Ciardelli, 2013-03-13 This book contains the texts of the main lectures presented at the NATO Advanced Studies Institute on Advances in Preparation and Properties of Stereoregular Polymers held at Tirrenia near Pisa Italy from October 3 to 14 1978 A few contributed papers have also been included because they were concerned with topics not included in the main lectures The primary objective of the Institute was to assist in the further development of stereoregular polymers because of the ever increasing demand for new products with exceptional chemical and physical properties This need has reawakened interest in the field Indeed there is now a rapidly increasing activity in the study of stereoregular polymerization and the preparation of structurally ordered polymers with the aim of achieving apprecia ble improvements in existing polymeric materials through new developments in synthesis and properties as well as in discovering new polymeric structures In order to achieve these objectives a broad interdiscipli nary cooperation among scientists involved in investigations on the design synthesis characterization and application of stereo regular or structurally ordered polymers will be necessary Handbook of Polymer Science and Technology Nicholas P. Cheremisinoff, 1989-07-31

Stereospecific Polymerization and Stereoregular Polymers A. Giarrusso, G. Ricci, Incoronata Tritto, 2004 EUPOC 2003 European Polymer Conference on Stereo specific Polymerization and Stereoregular Polymers was held on June 8 12 2003 in Milan Italy The symposium was organized to celebrate the centenary of the birth of Giulio Natta who shared the 1963 Nobel Prize in Chemistry with Karl Ziegler The symposium provided a forum to discuss New results and perspectives on novel catalysts Synthesis structure characterization and applications of polyolefins The symposium covered the following topics

Traditional catalysts Metallocene catalysts More recent catalysts Molecular modeling Polymerization mechanisms Structural aspects and properties of stereoregular polymers New products and processes This volume of Macromolecular Symposia is a collection of some of the lectures presented at the symposium and the opening lecture profiling Giulio Natta as a scientist Polymeric Materials Encyclopedia, Twelve Volume Set Joseph C. Salamone, 2020-07-17 The Polymeric Materials Encyclopedia presents state of the art research and development on the synthesis properties and applications of polymeric materials This groundbreaking work includes the largest number of contributors in the world for a reference publication in polymer science and examines many fields not covered in any other reference With multiple articles on many subjects the encyclopedia offers you a broad based perspective on a multitude of topics as well as detailed research information figures tables illustrations and references Updates published as new research unfolds will continue to provide you with the latest advances in polymer science and will keep the encyclopedia at the forefront of the field well into the future From novices to experienced researchers in the field anyone and everyone working in polymer science today needs this complete assessment of the state of the art The entire 12 volume set will be available in your choice of printed or CD ROM format Handbook of Thermoplastics Olagoke Olabisi, Kolapo Adewale, 2016-02-03 This new edition of the bestselling Handbook of Thermoplastics incorporates recent developments and advances in thermoplastics with regard to materials development processing properties and applications With contributions from 65 internationally recognized authorities in the field the second edition features new and updated discussions of seve Flame Retardancy of Fibres, Films, Plastics and Rubbers W.J. Roff, J.R. Scott, 2013-10-22 Fibres Films Plastics and Polymeric Materials ,1973 Rubbers A Handbook of Common Polymers focuses on polymeric materials The book first discusses a list of sections on individual polymers Topics include olefin and vinyl type carbohydrate type synthetic condensation type organo silicon and inorganic polymers as well as proteins The text also looks at list of sections on specific properties and related information The book then discusses polyethylenes polypropylene and polytetrafluoroethylene. The text also examines polystyrene Concerns include the structure chemistry physics fabrication serviceability and utilization of these materials The text also focuses on indene and coumarone indene resins polyvinyl acetate and alcohol polyvinyl formal acetal and butyral and polyacrylates and polymethacrylates The book then examines the structure chemistry physics fabrication serviceability and utilization of polyvinyl chloride polyvinylidene chloride cellulose and cellulose acetate The book also discusses the structure chemistry physics fabrication serviceability and utilization of cellulose nitrate cellulose ethers starch and regenerated proteins Same type of evaluation is also done to polyamides epoxy resins polyformaldehyde natural rubber and nitrile rubbers The text is a valuable source of information for readers interested in polymeric materials Models of Biopolymers By Ring-Opening Polymerization Stanislaw Penczek, 2018-01-18 There are a number of methods used to synthetically prepare biopolymers their models and bioanalogous polymers This work approaches the syntheses of the three major groups of

biopolymers existing in nature polypeptides polysaccharides and nucleic and teichoic acids by ring opening polymerization Until now this method has never been reviewed uniformly for these three groups The majority of models prepared by ring opening polymerization can not reach the complexity of the actual biological molecules However a better understanding of these biopolymers will aid in the use of such molecules in several fields of application in research and other high technologies where they mimic functions of related biopolymers in living organisms Polymer Crystallization Jyotishkumar Parameswaranpillai, Jenny Jacob, Senthilkumar Krishnasamy, Aswathy Jayakumar, Nishar Hameed, 2023-06-28 Polymer Crystallization Control the development of polymer crystals with this groundbreaking introduction Polymer crystallization is a crucial component of polymer development that impacts processing applications presentation and more Intervention in the polymer crystallization process in the form of nanofilters compatibilizers and more has the potential to improve optical and chemical properties improve degrees of crystallinity and increase the hardness of polymer composites The myriad applications of crystalline polymers make this one of the most exciting and fast growing fields in polymer research Polymer Crystallization provides a comprehensive introduction to this field and its most important recent developments It characterizes and analysis an expansive range of crystalline polymers and discusses possible mechanisms for influencing their crystallization processes to impact a variety of outcomes and applications. These applications include industries from food packaging to automotive parts to medical and aerospace materials Polymer Crystallization readers will also find Detailed treatment of polymer morphology rheology modeling and more Thorough introduction to the fundamentals of polymer crystallization Discussion of environmental safety issues and avenues for future research Polymer Crystallization is a useful reference for materials scientists polymer scientists biomedical scientists and advanced undergraduate and graduate students in these and related fields TEXT BOOK OF PHARMACEUTICAL ORGANIC CHEMISTRY-III Mrs. Pradnya A. Bhosle (Kshirsagar), 2025-04-21 This Textbook of Pharmaceutical Organic Chemistry III is a comprehensive resource designed for students and professionals in the field of pharmaceutical sciences It covers the fundamental principles of stereochemistry including optical geometrical and conformational isomerism which are crucial in drug design and medicinal chemistry The book provides an in depth study of chirality racemic modifications and resolution techniques ensuring a strong conceptual foundation in stereochemistry A major focus is given to heterocyclic chemistry detailing the synthesis reactivity and medicinal applications of important heterocyclic compounds such as pyrrole furan thiophene pyrazole imidazole oxazole thiazole pyridine quinoline acridine indole pyrimidine purine and azepines Their relevance in pharmaceutical applications is extensively discussed Additionally the book explores stereospecific and stereoselective reactions crucial in pharmaceutical synthesis and emphasizes their role in the development of bioactive molecules It also delves into important organic reactions of synthetic significance such as metal hydride reductions Clemmensen reduction Birch reduction Wolff Kishner reduction Oppenauer oxidation Dakin reaction and various rearrangements With a structured and student friendly approach this book

serves as an essential guide for understanding reaction mechanisms synthesis strategies and the chemical behavior of pharmaceutical compounds It is a valuable resource for pharmacy students researchers and professionals involved in organic synthesis and drug development Catalysis. Volume 6 J. R. Anderson, M. Boudart, 2022-08-22 No detailed description available for CATALYSIS V 6 CATALYSIS E BOOK Treatise on Solid State Chemistry N. Hannay, 2012-12-06 The last quarter century has been marked by the extremely rapid growth of the solid state sciences. They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished And playing an active role throughout this vast area of science and engineer ing have been very large numbers of chemists Yet even though the role of chemistry in the solid state sciences has been a vital one and the solid state sciences have in turn made enormous contributions to chemical thought solid state chemistry has not been recognized by the general body of chemists as a major subfield of chemistry Solid state chemistry is not even well defined as to content Some for example would have it include only the quantum chemistry of solids and would reject thermodynamics and phase equilibria this is nonsense Solid state chemistry has many facets and one of the purposes of this Treatise is to help define the field Perhaps the most general characteristic of solid state chemistry and one which helps differentiate it from solid state physics is its focus on the chemical composition and atomic configuration of real solids and on the relationship of composition and structure to the chemical and physical properties of the solid Real solids are usually extremely complex and exhibit almost infinite variety in their compositional and structural features Thermal Field-Flow Fractionation of Polymers Guilaume Greyling, Harald Pasch, 2019-02-21 This book introduces the reader to thermal field flow fractionation and discusses its advantages over the fundamental problems associated with traditional column based analytical techniques commonly used to characterize polymers and macromolecules The authors discuss the theoretical background equipment experimental procedures as well as the recent advances and applications of thermal field flow fractionation Complete with several practical examples and troubleshooting guidelines the book is written for beginners and experienced separation scientists alike and will enable its readers to optimize their experimental conditions for their specific separation needs and problems **Macromolecules · 1** H.G. Elias, 2012-12-06 The second edition of this textbook is identical with its fourth German edition and it thus has the same goals precise definition of basic phenomena a broad survey of the whole field integrated representation of chemistry physics and technology and a balanced treatment of facts and comprehen sion The book thus intends to bridge the gap between the often oversimpli fied introductory textbooks and the highly specialized texts and monographs that cover only parts of macromolecular science The text intends to survey the whole field of macromolecular science Its organization results from the following considerations The chemical structure of macromolecular compounds should be independent of the method of synthesis at least in the ideal case Part I is thus concerned with the chemical and physical structure of polymers Properties depend on structure Solution properties are thus discussed in Part 11 solid state properties in Part Ill There are other

reasons for dis cussing properties before synthesis For example it is difficult to understand equilibrium polymerization without knowledge of solution thermodynamics the gel effect without knowledge of the glass transition temperature etc Part IV treats the principles of macromolecular syntheses and reactions Macromolecules Hans-Georg Elias, 2013-06-29 Like so many of its kind this textbook originated from the requirements of teaching While lecturing on macromolecular science as a required subject for chemists and materials scientists on the undergraduate graduate and postgraduate levels at Swiss Federal Institute of Technology at Zurich 1960 1971 I needed a one volume textbook which treated the whole field of macromolecular science from its chemistry and physics to its applications in a not too elementary manner This textbook thus intends to bridge the gap between the often oversimplified introductory books and the highly specialized texts and monographs that cover only parts of macromolecular science This first English edition is based on the third German edition 1975 which is about 40% different from the first German edition 1971 a result of rapid progress in macromolecular science and the less rapid education of the writer This text intends to survey the whole field of macromolecular science Its organization results from the following considerations The chemical structure of macromolecular compounds should be independent of the method of synthesis at least in the ideal case Part I is thus concerned with the chemical and physical structure of macro molecules Properties depend on structure Solution properties are thus discussed in Part II solid state properties in Part III There are other reasons for discussing properties before syntheses For example it is difficult to under stand equilibrium polymerization without knowledge of solution thermody of the glass temperature etc Structural Order in Polymers Francesco Ciardelli, Paolo Giusti, 2013-10-22 Structural Order in Polymers presents the increasing importance of the relationships between order in the chemical constitution and in the steric structure of the macromolecules and physical and chemical properties of the polymers This book discusses the simple types of steric order found in biopolymers Organized into three parts encompassing 16 chapters this book begins with an overview of the structural regularity as a primary requisite for the crystallization of a polymer This text then examines the structure of cellulose which is the most significant structural stereoregular polymer Other chapters consider the major concepts of the stereoregulation of propylene catalytic polymerization This book discusses as well the factors that determine microstructure and stereospecifity in polymerization The final chapter deals with the significant role that membranes and membrane related processes play in solving many ecological problems This book is a valuable resource for chemical engineers chemists physicists scientists and research workers Polypropylene Structure, blends and Composites J. Karger-Kocsis, 2012-12-06 Although polypropylene has been marketed since the 1950s research and development in this area is still vigorous. The consumption of polypropylene over the years has been relatively high mainly due to the steady improvement of its property profile Polypropylene Structures Blends and Composites in three separate volumes reflects on the key factors which have contributed to the success of polypropylene dealing with all aspects of structure performance relationships relevant to thermoplastic polymers and related composites

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