

5.3.3 Stereo-regular Polymers

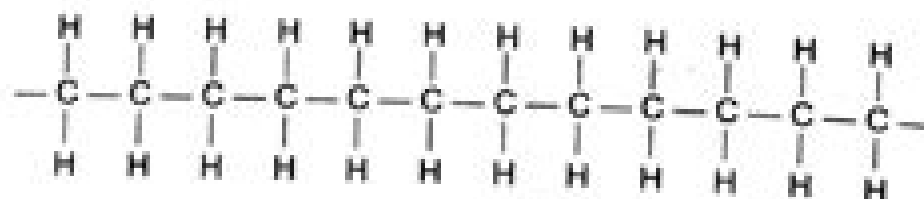
In stereo-regular polymers, each monomer segment is in a regular configuration, giving a definite structural regularity to the polymer molecule as a whole. This structural regularity, in a polymer may arise due to what are termed as "optical" and "geometric" isomerisms of the main chain atoms or substituents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

Walker



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Stereoregular Polymers and Stereospecific Polymerizations Giulio Natta, Ferdinando Danusso, 2013-10-22
Stereoregular Polymers and Stereospecific Polymerizations The Contributions of Giulio Natta and his School to Polymer Chemistry Volume 1 covers the developments in understanding the reactions nomenclature and physico chemical properties of polymers This volume is composed of 82 chapters and starts with surveys of the synthesis and crystal structure of polymers Significant chapters are devoted to the characterization of crystalline polymers with emphasis on the determination of their viscosity and molecular weight Other chapters deal with stereospecific polymers of olefins mechanism of stereospecific catalysis reaction kinetics This volume also considers the polymerization of synthetic elastomers and the copolymerization of olefins as well as their reaction kinetics The remaining chapters describe the X ray characterization of isotactic polymers This book is directed toward polymer chemists

Stereoregular Polymers and Stereospecific Polymerizations, 1967 *Chemistry & 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

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 and as a man

Preparation and Properties of Stereoregular 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 appreciable 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 interdisciplinary cooperation among scientists involved in investigations on the design synthesis characterization and application of stereo regular or structurally ordered polymers will be necessary Polymeric Materials Encyclopedia, Twelve Volume Set Joseph C. Salamone,2020-07-16 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 *Polymer Crystallization* Jyotishkumar Parameswaranpillai,Jenny Jacob,Senthilkumar Krishnasamy,Aswathy Jayakumar,Nishar Hameed,2023-07-05 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 *Organic and Bio-molecular Chemistry - Volume II* Francesco Nicotra,2009-04-14 Organic And Bio Molecular Chemistry is the component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Organic And Bio Molecular Chemistry in the Encyclopedia of Chemical Sciences Engineering and Technology Resources deal with the discipline that studies the molecules of life which are made by carbon atoms and includes also all the synthetic

compounds the skeletons of which contain carbon atoms The first chapter describes in general terms for not expert readers what Organic and Bio molecular chemistry is the nature and behavior of organic compounds in living organisms the importance of organic compounds in the market and in our every day life The subsequent chapters are organized in order to provide the reader with information on the structure reactivity analysis and different applications of Organic Compounds These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

The Science of Polymer Molecules Richard H. Boyd, Paul J. Phillips, 1993 An introduction concerning the synthesis structure and properties of the individual molecules constituting polymeric materials

Nonmetallic Materials and Composites at Low Temperatures A. F. Clark, Richard Reed, Gunther Hartwig, 2012-12-06 Cryogenics is an emerging technology filled with promises Many cryogenic systems demand the use of nonmetallics and composites for adequate or increased performance Thermal and electrical insulations potting for superconducting magnets mechanical stability and composite structures appear to be some of the most significant applications Research on nonmetallics at cryogenic temperatures has not progressed to the degree of research on metals Nor can room temperature research be extrapolated to low temperatures most polymers undergo a phase transformation to the glassy state below room temperature Research by producers for the most part has not been practical because except for LNG applications the market for large material sales is not imminent There are however many government stimulated developmental programs Research on nonmetallics thus is dictated by development project needs which require studies oriented toward prototype hardware and specific objectives As a result research continuity suffers Under these conditions periodic topical conferences on this subject are needed Industry and university studies must be encouraged Designers and project research material specialists need to exchange experiences and data Low temperature oriented research groups such as the National Bureau of Standards and the Institute for Technical Physics Karlsruhe must contribute by assisting with fundamentals interpreting project data and contributing to project programs through their materials research

Nuclear Magnetic Resonance G A Webb, 2007-10-31 As a spectroscopic method nuclear magnetic resonance NMR has seen spectacular growth both as a technique and in its applications Today's applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Nucleic Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR Nuclear Magnetic Resonance provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Specialist Periodical Reports

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www.rsc.org/spr 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 stereospecificity 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

The 20th Century Go-N Frank N. Magill, 2014-03-05 Each volume of the Dictionary of World Biography contains 250 entries on the lives of the individuals who shaped their times and left their mark on world history This is not a who's who Instead each entry provides an in depth essay on the life and career of the individual concerned Essays commence with a quick reference section that provides basic facts on the individual's life and achievements The extended biography places the life and works of the individual within an historical context and the summary at the end of each essay provides a synopsis of the individual's place in history All entries conclude with a fully annotated bibliography

Catalysis. Volume 6 J. R. Anderson, M. Boudart, 2022-08-22 No detailed description available for CATALYSIS V 6 CATALYSIS E BOOK

Handbook of Polymer Science and Technology Cheremisinoff, 2023-07-21 This handbook focuses on physical structural and compositional properties of elastomeric materials and plastics It provides a broad overview of the physical and physicochemical properties of synthetic rubbers that are used in conventional cured applications

Practical Testing and Evaluation of Plastics Achim Frick, Claudia Stern, Vibunanthan Muralidharan, 2019-03-18 Engineering with polymers is a growing technical field which requires special knowledge Filling a need this ready reference brings together the hard to get and recently acquired knowledge usually only found scattered in the original literature At the beginning the reference introduces plastics as a class of technical materials gives an overview of their properties presents plastics processing and its possible influence on the achievable quality of plastic parts Afterwards plastics testing is presented as a separate practical scientific field of work The possibilities and fields of application of plastics testing will be discussed This is followed by a comprehensive treatment of the individual relevant test areas for the characterization and qualification of plastics and plastic molded parts made from them with descriptions of the

corresponding practical test methods A comprehensive index provides easy access to relevant information for successful engineering with plastics and suitable methods for material characterization and for quality assurance and damage analysis of parts Written by experienced academics and industrial researchers and developers who know the problems of plastics engineers in their daily work and the solutions inside out this book offers first hand practical knowledge and intensive discussion The book is aimed at industry scientists and students involved in plastics and plastic engineering and aims to help them gain the necessary understanding of polymer materials and knowledge of practical testing and evaluation of plastics

Polypropylene and other Polyolefins S. van der Ven, 2012-12-02 This book deals with polyolefins prepared via Ziegler Natta catalysis from a polymer chemist's viewpoint i.e. with emphasis on their preparation and on their basic composition and properties In addition to chapters on catalysts polymerization behaviour and polymer properties such as tacticity crystallinity morphology etc a chapter is also devoted to characterization methods The main part of this work is reserved for polypropylene in all its forms namely homopolymer random copolymer and toughened block copolymers for which extensive own experience was present The other polyolefins are also covered by means of a thorough literature review This book is intended for scientists active in the field of polyolefins including catalyst development but should also prove an invaluable medium in academia to illustrate the growth of understanding in catalysis kinetics and characterization of a commercially very important class of polymers *Polymer Science*, 2002 **Thermal Field-Flow Fractionation of Polymers** Guillaume 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

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