1. Record Nr. UNINA9910139971003321

Autore	Schellenberg Jurgen
Titolo	Syndiotactic polystyrene [[electronic resource]] : synthesis, characterization, processing, and applications / / Jurgen Schellenberg
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2010
ISBN	1-282-38015-X 9786612380150 0-470-55700-1 0-470-55699-4
Descrizione fisica	1 online resource (486 p.)
Altri autori (Persone)	SchellenbergJurgen
Disciplina	668.4/233
Soggetti	Polystyrene Microcrystalline polymers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	SYNDIOTACTIC POLYSTYRENE; CONTENTS; PREFACE; CONTRIBUTORS; ABOUT THE EDITOR; PART I INTRODUCTION; 1. Historical Overview and Commercialization of Syndiotactic Polystyrene; 1.1 Discovery of Syndiotactic Polystyrene (SPS); 1.2 Early Years of Development (1985-1989); 1.3 Intense Development Years (1989-1996); 1.4 Initial Commercial Launch Stage (1996-2001); 1.5 Years 2001-2007; PART II PREPARATION OF SYNDIOTACTIC POLYSTYRENE; 2. Transition Metal Catalysts for Syndiotactic Polystyrene; 2.1 Introduction; 2.2 Transition Metal Compounds; 2.2.1 Metals; 2.2.2 Titanium Complexes 2.2.3 Molecular Weight Control 2.2.4 Supported and Heterogeneous Catalysts; 2.3 Summary; References; 3. Cocatalysts for the Syndiospecific Styrene Polymerization; 3.1 Introduction; 3.2 MAO; 3.3 Boron Compounds; 3.4 Other Chemicals; 3.5 Summary; References; 4. Mechanisms for Stereochemical Control in the Syndiotactic Polymerization of Styrene; 4.1 Introduction; 4.2 Insertion of the Growing Polymer Chain into the Double Bond of Styrene; 4.3 Stereochemistry of the Styrene Insertion; 4.4 Effects of Hydrogenation of the Catalyst; 4.5 Active Site Species; 4.5.1 Valence of Active Sites 4.5.2 Number of Active Sites 4.5.3 Structure of Active Sites; 4.6

Theoretical Analysis of the Catalyst; 4.7 Kinetic Analysis of Styrene Polymerization; 4.8 Conclusions; References; 5. Copolymerization of Ethylene with Styrene: Design of Efficient Transition Metal Complex Catalysts; 5.1 Introduction; 5.2 Ethylene/Styrene Copolymers: Microstructures, Thermal Properties, and Composition Analyses; 5.3 Ethylene/Styrene Copolymerization Using Transition Metal Complex-Cocatalyst Systems; 5.3.1 Half-Titanocenes, Cp TiX(3); 5.3.2 Linked (Constrained Geometry Type) Half-Titanocenes
5.3.3 Modified Half-Titanocenes, C(p)Ti(L)X(2)5.3.4 Non-Cp Titanium Complexes; 5.3.5 Metallocenes; 5.3.6 Others; 5.4 Summary and Outlook; References; 6. Structure and Properties of Tetrabenzo[a,c,g,i] fluorenyl-Based Titanium Catalysts; 6.1 Introduction; 6.2 The Tbf Ligand; 6.3 Tbf Lithium; 6.3.1 Synthesis and Characterization of Tbf Lithium; 6.4 Tbf Titanium(III) Derivatives; 6.4.1 Synthesis of Tbf Titanium(III) Chloride Complexes; 6.4.2 Reaction of TbfTi(III)Cl(2)(THF) (VIII) with Radicals; 6.5 Tbf Titanium(IV) Derivatives; 6.5.1 Synthesis of Tbf Titanium Monophenoxide Complexes
6.6 Dynamic and Polymerization Behavior of Tetrabenzofluorenyl Titanium Complexes 6.6.1 Styrene Polymerization; 6.7 Conclusions; References; 7. Rare-Earth Metal Complexes as Catalysts for Syndiospecific Styrene Polymerization; 7.1 Introduction; 7.2 Metallocene Catalysts; 7.3 Constrained Geometry Catalysts; 7.4 Half-Sandwich Catalysts; 7.5 Nonmetallocene Catalysts; 7.6 Conclusion; References; 8. Syndiospecific Styrene Polymerization with Heterogenized Transition Metal Catalysts; 8.1 Introduction; 8.2 Kinetics of Syndiospecific Polymerization with Heterogeneous Metallocene Catalysts
8.2.1 Kinetic Profiles of Heterogeneous SPS Polymerization

Sommario/riassunto

Syndiotactic Polystyrene (SPS), synthesized in a laboratory for the first time in 1985, has become commercialized in a very short time, with wide acceptance on the global plastics market. Written by leading experts from academia and industry from all over the world, Syndiotactic Polystyrene offers a comprehensive review of all aspects of SPS of interest to both science and industry, from preparation and properties to applications. This essential reference to SPS covers: The preparation of syndiotactic polystyrene by half-metallocenes and other transition metal catalysts<

2. Record Nr. UNINA9910830352803321

Autore	Fritzson Peter A. <1952->
Titolo	Introduction to modeling and simulation of technical and physical systems with Modelica / / Peter Fritzson
Pubbl/distr/stampa	Hoboken, N.J. : , : Wiley : , : IEEE Press [Piscataqay, New Jersey] : , : IEEE Xplore, , [2012]
ISBN	1-283-39780-3 9786613397805 1-118-09424-7
Descrizione fisica	1 online resource (227 p.)
Disciplina	003.3 003/.3
Soggetti	Systems engineering - Data processing Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Basic Concepts -- A Quick Tour of Modelica -- Classes and Inheritance -- System Modeling Methodology -- The Modelica Standard Library -- Appendix A: Glossary -- Appendix B: OpenModelica and OMNotebook Commands -- Appendix C: Textual Modeling with OMNotebook and DrModelica -- Appendix D: Graphical Modeling Exercises -- References -- Index.
Sommario/riassunto	Master modeling and simulation using Modelica, the new powerful, highly versatile object-based modeling language Modelica, the new object-based software/hardware modeling language that is quickly gaining popularity around the world, offers an almost universal approach to high-level computational modeling and simulation. It handles a broad range of application domains, for example mechanics, electrical systems, control, and thermodynamics, and facilitates general notation as well as powerful abstractions and efficient implementations. Using the versatile Modelica language and its assoc

3. Record Nr. UNICAMPANIAVAN0124998

Titolo	Singular Perturbations and Boundary Layers / Gung-Min Gie ... [et al.]
Pubbl/distr/stampa	Cham, : Springer, 2018
Titolo uniforme	Singular Perturbations and Boundary Layers
Descrizione fisica	xviii, 412 p. : ill. ; 24 cm
Soggetti	35B25 - Singular perturbations in context of PDEs [MSC 2020] 35C20 - Asymptotic expansions of solutions to PDEs [MSC 2020] 76M45 - Asymptotic methods, singular perturbations applied to problems in fluid mechanics [MSC 2020] 76D10 - Boundary-layer theory, separation and reattachment, higher-order effects [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia