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Ziegler Catalysts

By Fink, Gerhard / Mülhaupt, Rolf

Book Condition: New. Publisher/Verlag: Springer, Berlin | Recent Scientific Innovations and Technological Improvements | Forty years after Ziegler's discovery of the "Aufbaureaktion" and low-pressure ethene polymerization, transition metal catalyzed olefin and diolefin polymerization continues to represent one of the most active and exciting areas. Since the 1980s, outstanding scientific innovations and process improvements have revolutionized polyolefin technology and greatly simplified polymerization processes. Well-defined catalyst systems are now at hand and facilitate the understanding of basic reaction mechanisms and correlations between catalyst structures, polymer microstructures, and polymer properties. This book reviews some of the modern approaches in organometallic chemistry, Ziegler-Natta catalysis, polymerization processes, design of novel materials, and the modelling in catalyst and process development. | 1. Karl Ziegler-The Last Alchemist.- 2. Patent Right Aspects in Connection with Four Decades of Ziegler Catalysts.- 3. Novel Polyolefin Materials and Processes: Overview and Prospects.- 4. The Role of MAO-Activators.- 5. New Isotactic Polypropylenes via Metallocene Catalysts.- 6. Isospecific Pseudo-Helical Zirconocenium Catalysts.- 7. Manipulation of the Ligand Structure as an Effective and Versatile Tool for Modification of Active Site Properties in Homogeneous Ziegler-Natta Catalyst Systems.- 8. Polymerization of Phenyl Substituted Cyclic Olefins with Metallocene/Aluminoxane Catalysts.- 9. The Relationship Between Kinetics and Mechanisms.- 10. Binuclear...



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