

Stereoselective Polymerization with Single-Site Catalysts

Content

Stereoselective Polymerization with Single-Site Catalysts by Lisa S. Baugh.

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New synthetic techniques allow chemists to modify polymer microstructures more precisely than ever, making it possible to design materials that meet increasingly demanding performance requirements. Written and edited by experts in the field, **Stereoselective Polymerization with Single-Site Catalysts** reviews how the relative stereochemistry of polymer chains affects polymer properties and presents the latest strategies for developing tactic polymers using single-site catalysis.

This unified volume explains the mechanistic basics of tactic polymerizations, beginning with an extensive survey of the most important classes of metallocene and post-metallocene catalysts used to make polypropylenes. It also focuses on tactic stereoblock and ethylene/propylene copolymers and catalyst active site models, followed by chapters discussing the structure of more stereochemically complex polymers and polymerizations that proceed via non-vinyl-addition mechanisms. Individual chapters thoroughly describe tactic polymerizations of α -olefins, styrene, dienes, acetylenes, lactides, epoxides, acrylates, and cyclic monomers, as well as cyclopolymerizations and ditactic structures, olefin/CO polymers, and metathesis polyalkenamers.

An ideal reference and supplementary text, **Stereoselective Polymerization with Single-Site Catalysts** enables both new and experienced chemists to better understand tactic polymers and select appropriate catalyst systems for their preparation.

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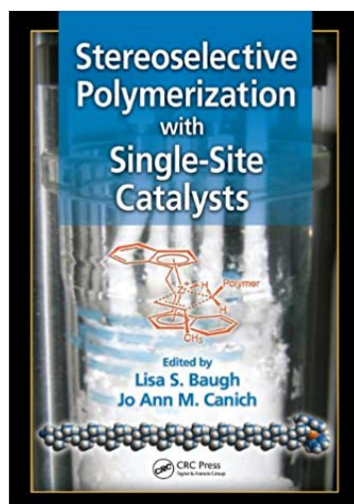
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