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1.3.4.5 Cycloisomerization Reactions
1.3.4.6 Indole-Forming Reaction;
1.3.4.7 Furan- and Pyrrole-Forming Reactions; 1.3.5 Reactions Involving Nucleophilic Addition of Carbonyl Compounds; 1.3.5.1 The Aldol Reaction; 1.3.5.2 Alkynylation Reactions; 1.3.5.3 Conjugate Addition Reactions; 1.3.6 Miscellaneous Reactions; 1.3.6.1 Transition Metal Catalyzed Reactions; 1.3.6.2 Lewis Acid Catalyzed Reactions; 1.3.6.3 Sequential Reactions; References; 2 Zinc Polymetallic Asymmetric Catalysis; 2.1 Introduction; 2.2 Asymmetric Alternating Copolymerization with Dimeric Zn Complexes
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2.3.1 Introduction; 2.3.2 Direct Catalytic Asymmetric Aldol Reaction with Methyl Ketones; 2.3.3 Direct Catalytic Asymmetric Aldol Reaction with α -Hydroxy Ketones; 2.4 Direct Catalytic Asymmetric Mannich-Type Reactions; 2.5 Direct Catalytic Asymmetric Michael Reaction; 2.6 Nitroaldol (Henry) Reaction; 2.7 Conclusions; References; 3 Group 13-Alkali Metal Heterobimetallic Asymmetric Catalysis; 3.1 Introduction; 3.2 Catalytic Asymmetric Michael Reaction of Stabilized Carbon Nucleophiles
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3.4.2 Enantio- and Diastereoselective Catalytic Nitro-Mannich Reactions

Sommario/riassunto

This first book to comprehensively cover this hot topic presents the information hitherto scattered throughout smaller reviews or single book chapters to provide an introduction to this rapidly expanding field. In ten chapters, the international team of expert authors treats asymmetric syntheses, new transformations, and organometallic reactions using homo- and hetero-bimetallic catalysts. Written for advanced researchers, this very timely publication is of significant benefit to organic and organometallic chemists in both academia and industry.
