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DERIVATIVES"; "3. SYNTHESIS OF CHIRAL DIOLS BY ASYMMETRIC DIHYDROXYLATION OF FERROCENYL ALKENES"; "4. HOMOGENEOUS CATALYTIC HYDROSILYLATION OF FERROCENE DERIVATIVES"; "5. CARBON-CARBON BOND-FORMING REACTIONS"; "5.1. Heck Reactions of Ferrocenyl Substrates"; "5.2. Cross-Coupling Reactions"; "5.2.1. Stille Coupling"; "5.2.2. Suzuki Coupling"; "5.2.3. Negishi Coupling"; "5.2.4. Cross-Coupling of Organomercurials"; "5.2.5. Other Coupling Reactions with Organometallic Reagents"; "5.2.6. Sonogashira Coupling"; "5.3. Metathesis Reactions"; "5.3.1. Ring-Closing Metathesis Reactions"; "5.3.2. Ring-Opening Metathesis Polymerization"; "6. C-HETEROATOM COUPLING REACTIONS OF FERROCENE DERIVATIVES"; "7. RING-OPENING POLYMERIZATION REACTIONS"; "8. COPPER CATALYZED AZIDE-ALKYNE CYCLOADDITION"; "9. CARBONYLATION REACTIONS LEADING TO CARBOXYLIC ACID DERIVATIVES AND CARBONYL COMPOUNDS"; "9.1. Palladium-Catalyzed Aminocarbonylation"; "9.2. Carbonylative Coupling Reactions"; "10. MISCELLANEOUS REACTIONS"; "CONCLUSION"; "REFERENCES"; "EXPLOITING FERROCENE TO DEVELOP SYNTHETIC MOLECULAR MACHINES"; "ABSTRACT"; "1. INTRODUCTION"; "2. FERROCENE HOST-GUEST CHEMISTRY AND STIMULI RESPONSIVE HOST-GUEST SYSTEMS"; "2.1. Ferrocene Host-Guest Chemistry"; "2.2 Stimuli Responsive Host-Guest Systems Containing Ferrocene"; "3. STIMULI RESPONSIVE INTERLOCKED ARCHITECTURES CONTAINING FERROCENE"; "3.1. Introduction to Mechanically Interlocked Architectures"; "3.2 Ferrocene Containing Mechanically Interlocked Architectures"

Sommario/riassunto

Ferrocene is an organometallic compound. It is the prototypical metallocene, a type of organometallic chemical compound consisting of two cyclopentadienyl rings bound on opposite sides of a central metal atom. This book presents research from across the globe in the study of ferrocenes.
