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Nota di contenuto	Ferrocenes; Preface; Contents; List of Contributors; List of Abbreviations; Part 1. Homogeneous Catalysis; 1 1,1'-Bis (diphenylphosphino)ferrocene - Coordination Chemistry, Organic Syntheses, and Catalysis; 1.1 Introduction; 1.2 Preparation and Complexation; 1.3 Structural Properties; 1.3.1 Modes of Coordination; 1.3.2 Geometrical Distortions; 1.4 Spectroscopic Characteristics; 1.4.1 Techniques; 1.4.1.1 <sup>31</sup> P NMR Spectroscopy; 1.4.1.2 <sup>1</sup> H NMR Spectroscopy; 1.4.1.3 Mossbauer Spectroscopy; 1.4.2 NMR Fluxionality; 1.5 Catalysis; 1.5.1 Cross Coupling 1.5.1.1 Organic Electrophile and Organometallic Coupling 1.5.1.2 Arylation and Vinylation of Alkenes; 1.5.1.3 Carbonylation and Carbonylative Coupling; 1.5.1.4 Nucleophilic Substitution; 1.5.1.5 Polycondensation and Polymerization; 1.5.2 Olefin Functionalization; 1.5.2.1 Hydroformylation; 1.5.2.2 Hydrogenation and Reduction; 1.5.2.3 Hydroboration and Hydrosilylation; 1.5.2.4 Isomerization; 1.6 Cluster Complexes; 1.7 Electrochemistry; 1.8 Biomedical Applications;

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## Sommario/riassunto

With applications ranging from asymmetric catalysis to magnetic materials, ferrocene is one of the most versatile building blocks in synthesis. This book captures the multidisciplinary nature of ferrocene research, including topics such as ferrocene-containing polymers, ferrocene-containing thermotropic liquid crystals, chiral ferrocene derivatives, and ferrocene-containing charge-transfer materials. In addition, the reader will find\* valuable information for planning syntheses\* over 70 tables, making relevant data available at a glance \* carefully selected references, provi