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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Palladacycles; Contents; List of Contributors; 1 Introduction; 1.1 Introduction; 1.2 Definition; 1.3 Historical Overview; 1.4 Classification of Palladacycles (Types); 1.5 Final Remarks; References; 2 C-H Bond Activation; 2.1 General Remarks; 2.2 Activation of Aryl C-H Bonds; 2.2.1 Donor Group Coordination; 2.2.2 Metal Precursor; 2.2.3 Electron Density at the Arene C-H Bond; 2.3 Pincer Complexes: A Special Case; 2.4 Transcyclometallation; 2.5 Activation of Heterocyclic C-H Bonds, Formation of Pd-Carbene Bonds; 2.6 Activation of sp(3) C-H Bonds; 2.6.1 Activation of Benzylic C-H Bonds 2.6.2 Activation of Aliphatic C-H Bonds2.7 Conclusions and Perspectives; References; 3 Oxidative Addition and Transmetallation; 3.1 Introduction; 3.2 Oxidative Addition; 3.3 Transmetallation; References; 4 Synthesis via Other Synthetic Solutions; 4.1 Introduction; 4.2 Synthesis of Palladacycles via Nucleophile-Palladation Reaction of Olefins or Alkynes Bearing Electron-Donor Heteroatoms; 4.2.1 Alkoxypalladation Reaction; 4.2.2 Carbopalladation; 4.2.3

Chloropalladation; 4.3 Carbopalladation Reaction via Insertion of Olefins or Alkynes into the Pd-C  $\sigma$ -Bond of Nonpalladacyclic Species  
 4.3.1 Insertion of Olefins or Alkynes Bearing Electron-Donor Atoms  
 4.3.2 Insertion of Olefins, Allenes or Alkynes into a Pd-C  $\sigma$ -Bond of a Fragment Containing Electron-Donor Atoms; 4.4 Nucleophile Palladation of Olefins or Alkynes Not Bearing Heteroatoms; 4.4.1 Aminopalladation and Aminoformylpalladation; 4.5 Conclusion; References; 5 The Pd-C Building Block of Palladacycles: A Cornerstone for Stoichiometric C-C and C-X Bond Assemblage; 5.1 Introduction; 5.2 Reactions with Carbon Monoxide; 5.3 Reactions with Alkenes; 5.4 Reaction with Alkynes; 5.5 Reaction with Isocyanides  
 5.6 Reaction with Allenes  
 5.7 Reactions with Acyl Halides; 5.8 Reaction with Halogens; 5.9 Conclusions; References; 6 C-H Activations via Palladacycles; 6.1 Introduction: C-C Bond Formation via Cyclopalladation Reactions; 6.2 Stoichiometric C-H Activation Chemistry; 6.3 Catalytic Chemistry; 6.3.1 Vinylations; 6.4 Arylations; 6.5 Direct C-H C-H Coupling Reactions; 6.6 Alkylations; 6.7 Other Reactions; 6.7.1 Carbonylations; 6.7.2 C-N Bond Formation; 6.8 Conclusion; References; 7 Cyclopalladated Compounds as Resolving Agents for Racemic Mixtures of Ligands; 7.1 Introduction  
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 7.3 Chiral Palladacyclic Auxiliaries; 7.4 Monodentate Ligands; 7.4.1 Resolution of Phosphines and Arsines; 7.4.2 Resolution of Air-Sensitive Ligands; 7.4.3 Resolution of Atropoisomeric Phosphines; 7.4.4 Resolution of Halogenophosphines; 7.4.5 Resolution of Stibines; 7.4.6 Resolution of Cluttered Chiral Bidentate Ligands; 7.5 Bidentate Ligands; 7.5.1 Neutral Ligands; 7.5.2 Anionic Ligands; 7.6 Conclusion; References; 8 Application of Cyclopalladated Compounds as Catalysts for Heck and Sonogashira Reactions; 8.1 Heck Reaction; 8.1.1 Introduction; 8.1.2 Mechanism  
 8.1.3 Catalysts

## Sommario/riassunto

From synthesis to applications in catalysis, material science and biology this much-needed book is the first to comprehensively present everything you need to know about palladacycles. Renowned international authors guarantee high-quality content, making this a must-have for everyone working in the field.