

1. Record Nr.	UNINA9910140759103321
Titolo	Catalyzed carbon-heteroatom bond formation [[electronic resource] /] / edited by Andrei K. Yudin
Pubbl/distr/stampa	Weinheim, Germany, : Wiley-VCH, 2011
ISBN	3-527-63340-5 1-282-84957-3 9786612849572 3-527-63338-3 3-527-63339-1
Descrizione fisica	1 online resource (523 p.)
Altri autori (Persone)	Yudin Andrei K
Disciplina	546.6812
Soggetti	Carbon compounds Chemical bonds Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1.3.5 Pd-Catalyzed Carboamination Reactions of Alkynes, Allenes, and Dienes 1.3.6 Vicinal Difunctionalization of Alkenes and Allenes; 1.4 Synthesis of Nitrogen Heterocycles via Intermediate $\eta$ -Allylpalladium Complexes; 1.4.1 Reactions Involving Oxidative Addition of Allylic Electrophiles; 1.4.2 Reactions Involving $\eta$ -Allylpalladium Intermediates Generated via Alkene Carbopalladation; 1.4.3 Reactions Involving Aminopalladation of 1,3-Dienes; 1.4.4 Generation of Allylpalladium Intermediates through C-H Activation 2.5.2 Reductive Cyclization of Ketoacids and Ketoesters 2.5.3 C-H Oxygenation; 2.5.4 Ring Closure of Benzoic Acids with Dihaloalkanes; 2.5.5 Baeyer-Villiger Oxidation of Cyclic Ketones; 2.5.6 Ring Opening of Cyclopropanes with Carboxylic Acids; 2.5.7 Ring Closure of o-Iodobenzoates with Aldehydes; 2.5.8 Synthesis of Lactones Involving CO <sub>2</sub> ; 2.5.9 Michael Addition of $\alpha$ , $\beta$ -Unsaturated N-Acylpyrrolidines; 2.5.10 [2 + 2] Cycloaddition of Ketenes and Aldehydes; 2.5.11 Tandem Cross-Metathesis/Hydrogenation Route to Lactones; 2.5.12 Modern Catalytic Variants of Classical Macrolactonizations

## 2.6 Conclusions and Outlook

### Sommario/riassunto

Written by an experienced editor widely acclaimed within the scientific community, this book covers everything from oxygen to nitrogen functionalities. From the contents: \* Palladium-Catalyzed Syntheses of Five-Membered Saturated Heterocycles\* The Formation of Carbon-Sulfur and Carbon-Selenium Bonds by Substitution and Addition Reactions Catalyzed by Transition Metal Complexes\* Palladium-Catalysis for Oxidative 1,2-Difunctionalization of Alkenes\* Palladium-Catalyzed Formation of Aromatic Heterocycles\* Rhodium-Catalyzed Amination of C-H-Bonds\* Transition Metal-Catalyz