1. Record Nr. UNINA990000851720403321

Autore	Matzner, Richard A.
Titolo	Classical mechanics / Richard A. Matzner, Lawrence C. Shepley
Pubbl/distr/stampa	New Jersey, : Prentice-Hall, Inc., 1991
ISBN	0-13-137076-6
Descrizione fisica	IX, 245 p. ; 24 cm
Altri autori (Persone)	Shepley, Lawrence C.
Disciplina	531
Locazione	FINBN
Collocazione	02 12 E 71
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910829917503321

Titolo	Modern rhodium-catalyzed organic reactions [[electronic resource] /] / edited by P. Andrew Evans
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2005
ISBN	1-280-51956-8 9786610519569 3-527-60469-3 3-527-60409-X
Descrizione fisica	1 online resource (499 p.)
Altri autori (Persone)	EvansAndrew P
Disciplina	547.215
Soggetti	Rhodium catalysts Organic compounds - Synthesis Chemistry, Organic Katalyse Rhodium
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	Modern Rhodium-Catalyzed Organic Reactions; Foreword; Preface; Contents; List of Contributors; 1 Rhodium-Catalyzed Asymmetric Hydrogenation; 1.1 Introduction; 1.2 Chiral Phosphorous Ligands; 1.2.1 Atropisomeric Biaryl Bisphosphine Ligands; 1.2.2 Chiral Bisphosphane Ligands Based on the Modification of DuPhos and BPE; 1.2.3 Chiral Bisphosphane Ligands Based on the Modification of DIOP; 1.2.4 Chiral Ferrocene-Based Bisphosphane Ligands; 1.2.5 P-Chiral Bisphosphane Ligands; 1.2.6 Other Bisphosphane Ligands; 1.2.7 Bisphosphinite, Bisphosphonite, and Bisphosphite Ligands 1.2.8 Chelating Aminophosphine- and Amidophosphine-phosphoramidites1.2.9 Chiral Monophosphorous Ligands; 1.3 Applications of Chiral Phosphorous Ligands in Rhodium-Catalyzed Asymmetric Hydrogenation; 1.3.1 Hydrogenation of Olefins; 1.3.1.1 Hydrogenation of Dehydroamino Acid Derivatives; 1.3.1.2 Hydrogenation of Enamides; 1.3.1.3 Asymmetric Hydrogenation of ß-(Acylamino)acrylates; 1.3.1.4 Asymmetric Hydrogenation of Enol Esters; 1.3.1.5 Asymmetric Hydrogenation of Unsaturated Acids and Esters; 1.3.2 Hydrogenation of Ketones; 1.3.2.1 Hydrogenation of Functionalized Ketones 1.3.2.2 Hydrogenation of Unfunctionalized Ketones1.3.3 Asymmetric Hydrogenation of Imines; 1.3.3.1 Acyclic N-Alkylimines; 1.3.3.2 C=N-X Substrates; 1.4 Conclusion; 1.5 References; 2 Rhodium-Catalyzed Hydroborations and Related Reactions; 2.1 Introduction; 2.2 General Advances in Catalytic Hydroboration; 2.3 Advances in Asymmetric Hydroboration; 2.3.1 Diphosphine Ligands; 2.3.2 Phosphinamine and Related Ligands; 2.3.3 Transformations of the Initial Boronate Ester; 2.4 Catalytic Diboration of Alkenes; 2.5 Summary and Conclusions; 2.6 References 3 Rhodium(I)-Catalyzed Asymmetric Addition of Organometallic Reagents to Electron-Deficient Olefins3.1 Introduction; 3.2 Addition of Organoboron Reagents to ,-Unsaturated Ketones; 3.3 Mechanism; 3.4 Addition of Organoboron Reagents to Other Electron-Deficient Olefins; 3.5 Addition of Organotin and -silicon Reagents; 3.6 New Aspects of Addition of Organoboron and -titanium Reagents; 3.7 Outlook; 3.8 References; 4 Recent Advances in Rhodium(I)-Catalyzed Asymmetric Olefin Isomerization and Hydroacylation Reactions; 4.1 Rhodium(I)-Catalyzed Asymmetric Isomerization of Olefins 4.1.1 Allylic Amines4.1.2 Allylic Ethers; 4.1.3 Allylic Alcohols; 4.1.4 Summary; 4.2 Rhodium(I)-Catalyzed Asymmetric Hydroacylation of Olefins and Alkynes with Aldehydes; 4.2.1 Cyclopentanones; 4.2.2 Cyclopentenones; 4.2.3 Summary; 4.3 References; 5 Stereoselective Rhodium(I)-Catalyzed Hydroformylation and Silylformylation Reactions and their Application to Organic Synthesis; 5.1 Introduction; 5.2 Hydroformylation; 5.2.1 Diastereoselective Hydroformylation of Chiral Alkene Substrates; 5.2.2 Hydroformylation of Organomercurials; 5.2.3 Directed Diastereo- and Regioselective Hydroformylation 5.2.4 Applications in Natural Product Synthesis
Sommario/riassunto	Rhodium has proven to be an extremely useful metal due to its ability to catalyze an array of synthetic transformations, with quite often-unique selectivity. Hydrogenation, C-H activation, allylic substitution, and numerous other reactions are catalyzed by this metal, which presumably accounts for the dramatic increase in the number of articles that have recently emerged on the topic. P. Andrew Evans, the editor of this much-needed book, has assembled an internationally

renowned team to present the first comprehensive coverage of this important area. The book features contributions