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| Descrizione fisica | 1 online resource (769 p.) |
| Collana | Comprehensive Name Reactions ; ; v.1 |
| Altri autori (Persone) | LiJie Jack CoreyE. J |
| Disciplina | 547 547/.2 |
| Soggetti | Organic compounds - Synthesis Chemical reactions |
| 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 | Asymmetric synthesis. CBS reduction ; Davis chiral oxaziridine reagents ; Midland reduction ; Noyori catalytic asymmetric hydrogenation ; Sharpless asymmetric hydroxylation reactions -- Reduction. Eschweiler-Clark reductive alkylation of amines ; Gribble reduction of diaryl ketones ; Luche reduction ; Meerwein-Ponndorf-Verley reduction ; Staudinger reaction ; Wharton reaction -- Oxidation. Baeyer-Villiger oxidation ; Brown hydroboration reaction ; Burgess dehydrating reagent ; Corey-Kim oxidation ; Dess-Martin periodinane oxidation ; Tamao-Kumada-Fleming oxidation ; Martin's sulfurane dehydrating reagent ; Oppenauer oxidation ; Prilezhaev reaction ; Rubottom oxidation ; Swern oxidation ; Wacker-Tsuji oxidation ; Woodward cis-dihydroxylation -- Olefination. Chugaev elimination ; Cope elimination reaction ; Corey-Winter olefin synthesis ; Perkin reaction (cinnamic acid synthesis) ; Perkow vinyl phosphate synthesis ; Ramberg-Bäcklund olefin synthesis ; Shapiro reaction ; Zaitsev elimination -- Amine synthesis. Fukuyama amine synthesis ; Gabriel synthesis ; Leuckart-Wallach reaction -- |

Carboxylic acid derivatives synthesis. Fischer-Speier esterification ; Mukaiyama esterification ; Ritter reaction ; Strecker amino acid synthesis ; Yamada coupling reagent ; Yamaguchi esterification -- Miscellaneous functional group manipulations. Balz-Schiemann reaction ; Buchwald-Hartwig reactions ; Haloform reaction ; Hunsdiecker reaction ; Japp-Klingemann hydrazone synthesis ; Krapcho decarboxylation ; Nef reaction ; Prins reaction ; Regitz diazo synthesis ; Sommelet reaction.

Sommario/riassunto

This practical, well-organized reference delves deeply into functional group transformations, to provide all the detailed information that researchers need. Topics are organized into the following sections: oxidation, reduction, asymmetric synthesis, and functional group manipulations. Each section includes a description of the functional group transformation, the historical perspective, mechanisms, variations and improvements on the reaction, synthetic utilities and applications for the reaction, experimental details, and references to the primary literature. Contributors are
