



Carbon-Carbon σ -Bond Formation: Volume 3 (Comprehensive Organic Synthesis)

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Volume 3 covers carbon-to-carbon single bond forming reactions involving sp^3 , sp^2 and sp carbon centers, but only those which do not involve additions to C-X σ -bonds. The volume first compares and contrasts the alkylation reactions of all types of sp^3 carbon nucleophiles and also covers vinyl and alkynyl carbanions. Following on from Volume 2, a separate section covers Friedel-Crafts alkylation reactions, which is complemented by discussions of polyene cyclizations and electrophilic transannular cyclizations in synthesis. Coupling reactions leading to σ -bond formation, and involving all types of combinations of sp^3 , sp^2 and sp carbon centers are next covered, including those reactions based on pinacol, acyloin and phenol oxidative coupling reactions, and also the Kolbe reaction. Rearrangement reactions, leading to carbon-to-carbon σ -bond formation, are often used in a clever manner in synthesis. The volume includes all those rearrangement reactions based on intermediate carbonium ions and carbanions, and also includes the benzil-benzilic acid and the Wolff rearrangements. The volume closes with coverage of carbonylation reactions, and the use of carbene insertion reactions into the C-H bond in synthesis.

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