



Science of Synthesis: Catalytic Transformations via C-H Activation Vol. 1

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Description

The reference work "Science of Synthesis: Catalytic Transformations via C-H Activation" covers the state of the art in C-H activation chemistry. Experts in the field present the best synthetic methods including typical or general experimental procedures. As such, this two volume set can serve as both a basis for the practical application of the techniques discussed, and as an educational resource to lay the foundations for future research.

Volume 1 concerns the formation of C-C bonds by both arene and heteroarene C-H activation. For the arenes the material is subdivided into arylation [using palladium(0), palladium(II)/palladium(IV), palladium(II), and ruthenium(II) catalysts], vinylation [using various palladium and ruthenium(III) catalysts], and alkylation (using various metal catalysts in combination with either functionalized alkanes or alkenes). For the heteroarenes, the related coupling strategies are covered as a single topic using a variety of metal catalysts and coupling partners.