



C-H Bond Activation in Organic Synthesis

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Greener than conventional methods, C–H activation methods have flourished during the last decade and become especially attractive to organic chemists. Edited by a practitioner in this rapidly developing field, **C–H Bond Activation in Organic Synthesis** provides an overview of this exciting playground of chemistry. The book summarizes the state of the art in C–H activation for functionalization, enabling you to carry out reactions in the most environmentally friendly fashion with the least contamination of by-products.

The most popular C–H activation reactions are catalyzed by transition metals. This book dedicates a chapter to each of the following catalysts: palladium, rhodium, nickel, iron, copper, and cobalt. In addition, it covers radical-mediated C–H activation, fluorination via C–H activation, and C–H activation of heterocycles. Using a pedagogically practical approach, each chapter is divided by the transition metal catalyst, not a specific transformation. This gives you an up-to-date review of the most important topics of C–H activation.

The area of C–H activation has experienced a flurry of activity over the past two decades, so the time is right for a resource that summarizes these powerful tools with which you can design and construct heteroaromatic molecules. Thus, direct C–H functionalization methods are expected to continue to greatly contribute to the mission of green chemistry: low-energy, waste-free, and atom-economic transformations for the synthesis of organic materials and biologically active molecules in the twenty-first century. Using this book, you can carry out environmentally friendly reactions that enable the conversion of cheap and abundant alkanes into valuable functionalized organic compounds.

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Corinne Schlegel:

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