



Transition Metal-Catalyzed Heterocycle Synthesis via C-H Activation

By Wu, Xiao-Feng

Condition: New. Publisher/Verlag: Wiley-VCH | Reflecting the tremendous growth of this hot topic in recent years, this book covers C-H activation with a focus on heterocycle synthesis. As such, the text provides general mechanistic aspects and gives a comprehensive overview of catalytic reactions in the presence of palladium, rhodium, ruthenium, copper, iron, cobalt, and iridium. The chapters are organized according to the transition metal used and sub-divided by type of heterocycle formed to enable quick access to the synthetic route needed. Chapters on carbonylative synthesis of heterocycles and the application of C-H activation methodology to the synthesis of natural products are also included. Written by an outstanding team of authors, this is a valuable reference for researchers in academia and industry working in the field of organic synthesis, catalysis, natural product synthesis, pharmaceutical chemistry, and crop protection. | 1. Introduction and General Mechanisms 2. Pd-catalyzed Synthesis of Nitrogen Containing Heterocycles 3. Pd-catalyzed Synthesis of Oxygen Containing Heterocycles 4. Pd-catalyzed Synthesis of Other Heteroatom Containing Heterocycles 5. Rh-catalyzed Synthesis of Nitrogen Containing Heterocycles 6. Rh-catalyzed Synthesis of Oxygen Containing Heterocycles 7. Ru-catalyzed Synthesis of Nitrogen Containing Heterocycles 8. Ru-catalyzed Synthesis of Oxygen Containing Heterocycles 9. Cu-catalyzed Heterocycle Synthesis 10. Ni-catalyzed Heterocycle Synthesis 11. Fe-catalyzed Heterocycle Synthesis 12. Co-catalyzed Heterocycle Synthesis 13. Ir-catalyzed Heterocycle Synthesis 14. Carbonylative...



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