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Applications of Rh Catalysts; 5.3 Applications of Pd Catalysts; 5.4 Applications of Ru and Other Catalysts; 5.5 Conclusions; 5.6 Selected Experiments; References; Chapter 6: Imine Arylations - Synthesis of Arylamines; 6.1 Arylation of C=N Bonds: Simple Access to Chiral Amine Units; 6.2 Application of Rh Catalysts; 6.3 Application of Pd Catalysts; 6.4 Application of Ru and Other Catalysts; 6.5 The Petasis-Akritopoulou Reaction; 6.6 Conclusions; 6.7 Selected Experiments; References; Chapter 7: Carbonyl Group Arylation; 7.1 Introduction; 7.2 Application of Rh Catalysts; 7.3 Application of Pd Catalysts; 7.4 Application of Ru and Other Catalysts; 7.5 Conclusions; 7.6 Selected Experiments; References; Chapter 8: α -Arylation Processes; 8.1 Introduction; 8.2 Arylation of Enolates and Equivalent; 8.3 Other Metal-Catalyzed α -Arylations; 8.4 Conclusions; 8.5 Selected Experiments; References; Chapter 9: Catalytic Cycloaddition Aromatization Processes; 9.1 Introduction; 9.2 Cycloaddition Events; 9.3 Radical-Based Cycloaromatization Processes; 9.4 Conclusions; 9.5 Selected Experiments from the Literature; References; Index; End User License Agreement

Sommario/riassunto

A current view of the challenging field of catalytic arylation reactions. Clearly structured, the chapters in this one-stop resource are arranged according to the reaction type, and focus on novel, efficient and sustainable processes, rather than the well-known and established cross-coupling methods. The entire contents are written by two authors with academic and industrial expertise to ensure consistent coverage of the latest developments in the field, as well as industrial applications, such as C-H activation, iron and gold-catalyzed coupling reactions, cycloadditions or novel methodologies
