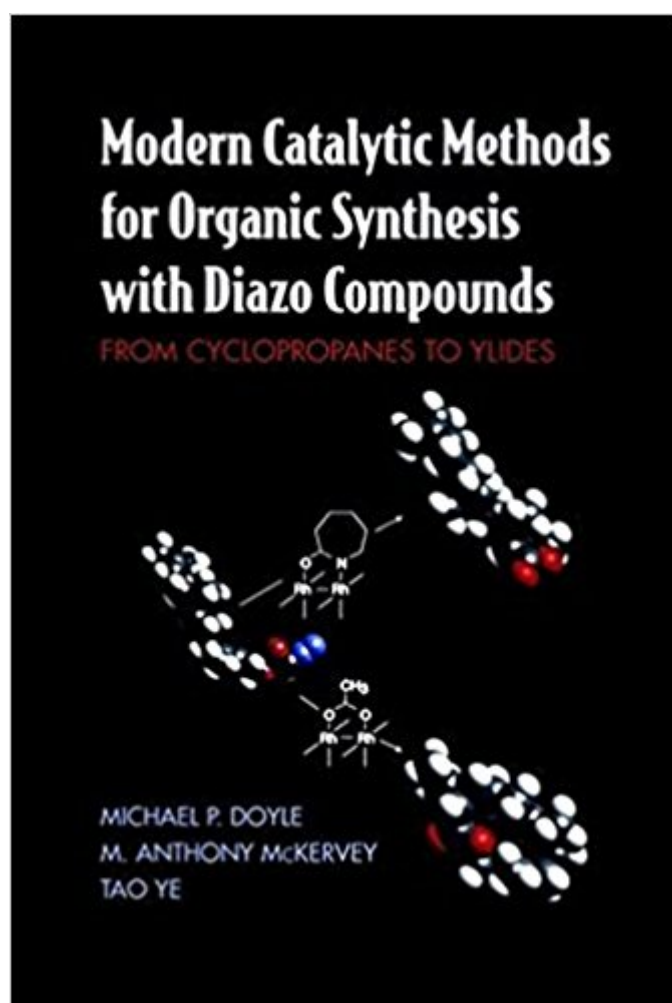


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Modern Catalytic Methods For Organic Synthesis With Diazo Compounds: From Cyclopropanes To Ylides



Synopsis

This much-needed resource brings together a wealth of procedures for the synthesis and practical use of diazocarbonyl compounds. It features methods for the preparation of important catalysts and for applications of diazocarbonyl compounds within each of the main transformation categories-including in-depth coverage of cyclopropanation, C-H and X-H insertion, Wolff rearrangement, ylide formation, aromatic cycloaddition and substitution, and many other useful reactions. Written by leading experts in the field, this book contains cutting-edge material on highly enantioselective transformations, and presents new ways of thinking about diazocarbonyl compounds and their applications, from donor-acceptor cyclopropanes in organic synthesis to macrocyclic cyclopropanation. Complete with illustrative examples of procedures in each chapter, clear diagrams, and a detailed bibliography, this practical reference gives readers the tools they need to put diazocarbonyl compounds to work for their own projects-an invaluable source of guidance for synthetic organic chemists, chemical scientists, and advanced students.

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For the first time in a single volume, here is a complete and comprehensive coverage of those features of the chemistry of diazocarbonyl compounds that characterize their enduring versatility as intermediates for organic synthesis. Emphasis is on synthetic applications and preparation of catalysts with sample handling procedures provided throughout the text. In addition, mechanistic interpretations are included to develop a predictive basis for synthesis.

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