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Carbon-carbon bond forming reactions are arguably the most important processes in chemistry, as they represent key steps in the building of complex molecules from simple precursors. Among these reactions, metal-catalyzed cross-coupling reactions are extensively

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employed in a wide range of areas of preparative organic chemistry, ranging from the synthesis of complex natural products, to supramolecular chemistry, and materials science. In this work, a dozen internationally renowned experts and leaders in the field bring the reader

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up to date by documenting and critically analyzing current developments and uses of metal-catalyzed cross-coupling reactions. A particularly attractive and useful feature, that enhances the practical value of this monograph, is the inclusion of key synthetic protocols, in

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organic chemists who specialize in the use of organometallics in organic synthesis, this acclaimed Manual offers an especially valuable resource for all synthetic chemists, providing a practical

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reference for conducting transition metal-mediated synthetic reactions. This Fourth Manual is divided into four chapters: Chapter I: Organocopper Chemistry Chapter II: Organorhodium Chemistry Chapter III:

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method to a given need, and then to perform the reaction with confidence. The Manual covers both established organometallic procedures along with the most recently published protocols. Industrial processes are

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occurring through
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present book is concerned primarily with a new development in titanium chemistry which is useful in organic synthesis. In 1979/80 it was discovered that the titanation of classical carbanions using C_1TiX leads to species with reduced basicity and reactivity.

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This increases 3 chemo-, regio- and stereo selectivity in reactions with organic compounds such as aldehydes, ketones and alkyl halides. Many new examples have been reported in recent times. Since the nature of the ligand X at titanium can be widely varied, the

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electronic and steric nature of the reagents is easily controlled. This helps in predicting the stereochemical outcome of many of the C-C bond forming reactions, but the trial and error method is still necessary in other cases. One of the ultimate objectives of

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chemistry is to understand correlations between structure and reactivity. Although this goal has not been reached in the area of organotitanium chemistry, appreciable progress has been made. A great deal of physical and computational data of

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organotitanium compounds described in the current and older literature (e. g. , Ziegler-Natta type catalysts) has been reported by polymer, inorganic and theoretical chemists. It is summarized in Chapter 2 of this book, because some aspects are

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useful in understanding reactivity and selectivity of organo titanium compounds in organic synthesis as described in the chapters which follow.

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each chapter, readers will find
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bility in the carbon-carbon, carbon-heteroatom, and carbon-metalloid bond formations, as well as high efficiency of the catalytic process, the reactions have been widely employed by organic chemists in various fields. Application of the protocol ranges from various syntheses of complex natural products

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to the preparation of biologically relevant molecules including drugs, and of sup- molecules, and to functional materials. The reactions on solid surfaces allow robot synthesis and combinatorial synthesis. Now, many organic chemists do not hesitate to use transition metal complexes for

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the transformation of organic molecules. Indeed, innumerable organic syntheses have been realized by the catalyzed reactions of transition metal complexes that are not achievable by traditional synthetic methods. Among these, the metal-catalyzed cross-coupling reactions

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Reactions (Wiley-VCH, 1998).

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relevant in heterocyclic chemistry. In this way, the authors present a useful resource for members of the academic community looking for a textbook as well as industrial chemists in search

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** It has been rumored that a bumble bee has such aerodynamic deficiencies that it should be incapable of flight. Fiberglass-reinforced polymer composites, similarly, have two*

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(apparently) insurmountable obstacles to performance:
1) Water can hydrolyze any conceivable bond between organic and inorganic phase, and 2) Stresses across the interface during temperature

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cycling (resulting from a mismatch in thermal expansion coefficients) may exceed the strength of one of the phases.

Organofunctional silanes are hybrid organic-inorganic

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compounds that are used as coupling agents across the organic-inorganic interface to help overcome these two obstacles to composite performance. One of their functions is to use the

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hydrolytic action of water under equilibrium conditions to relieve thermally induced stresses across the interface. If equilibrium conditions can be maintained, the two problems act to cancel each

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other out. Coupling agents are defined primarily as materials that improve the practical adhesive bond of polymer to mineral. This may involve an increase in true adhesion, but it may also

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involve improved wetting, rheology, and other handling properties. The coupling agent may also modify the inter phase region to strengthen the organic and inorganic boundary layers.

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Fourth Manual

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The efficient synthesis of heterocycles has become one of the main branches in organic chemistry due to their use in the synthesis of natural products and pharmaceuticals. Current synthetic strategies based on C-H activation methodologies are met with many problems like harsh reaction conditions

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and low reaction efficiency. Double functionalized chemicals offer a perfect alternative for the synthesis of heterocycles. Heterocycles from Double-Functionalized Arenes starts with a short discussion on the importance of heterocycles and a brief introduction on the preparation of double-functionalized

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arenes. Specific chapters then look at five-membered heterocycles synthesis, six-membered heterocycles synthesis and macroheterocycles synthesis. This is the first book dedicated to the topic of transition metal catalyzed coupling reactions of double functionalized arenes in heterocycle synthesis and can be used as

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a handbook for senior researchers and as an introduction for organic chemistry students.

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