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The Mizoroki-Heck Reaction (Hardback)

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John Wiley and Sons Ltd, United States, 2009. Hardback. Condition: New. New. Language: English . Brand New Book. Exploring the importance of Richard F. Heck's carbon coupling reaction, this book highlights the subject of the 2010 Nobel Prize in Chemistry for palladium-catalyzed cross couplings in organic synthesis, and includes a foreword from Nobel Prize winner Richard F. Heck. The Mizoroki-Heck reaction is a palladium-catalyzed carbon-carbon bond forming process which is widely used in organic and organometallic synthesis. It has seen increasing use in the past decade as chemists look for strategies enabling the controlled construction of complex carbon skeletons. The Mizoroki-Heck Reaction is the first dedicated volume on this important reaction, including topics on: * mechanisms of the Mizoroki-Heck reaction * intermolecular Mizoroki-Heck reactions * focus on regioselectivity and product outcome in organic synthesis * waste-minimized Mizoroki-Heck reactions * intramolecular Mizoroki-Heck reactions * formation of heterocycles * chelation-controlled Mizoroki-Heck reactions * the Mizoroki-Heck reaction in domino processes * oxidative heck-type reactions (Fujiwara-Moritani reactions) * Mizoroki-Heck reactions with metals other than palladium * ligand design for intermolecular asymmetric Mizoroki-Heck reactions * intramolecular enantioselective Mizoroki-Heck reactions * desymmetrizing Mizoroki-Heck reactions * applications in combinatorial and solid phase syntheses, and the development of modern solvent systems and reaction techniques * the asymmetric intramolecular Mizoroki-Heck reaction in natural...



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