



Organotransition Metal Chemistry: From Bonding to Catalysis

By John Hartwig

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Organotransition Metal Chemistry From Bonding to Catalysis provides a selective, but thorough and authoritative coverage of the fundamentals of organometallic chemistry, the elementary reactions of these complexes, and many catalytic processes occurring through organometallic intermediates. Built upon the foundation established by the classic text by Collman, Hegedus, Norton and Finke, this text consists of new or thoroughly updated and restructured chapters and provides an in-depth view into mechanism, reaction scope, and applications.

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Editorial Review

Review

To anyone who wants to engage in this line of research, this text will serve as the single best source for all the essential information. --T.V. RajanBabu, The Ohio State University

This book is destined to be the go-to resource for the field of transition metal organometallic chemistry for many years to come. It will undoubtedly find a place on the bookshelf of virtually every organic and inorganic chemist, alongside classics like March's Advanced Organic Chemistry and Cotton and Wilkinson's Advanced Inorganic Chemistry. --Journal of the American Chemical Society

The most notable applications of organometallic chemistry in the past two decades have been characterized by the use of fundamental aspects of structure, bonding and reactivity. To anyone who wants to engage in this line of research, this text will serve as the single best source for all the essential information. ----T.V. RajanBabu, The Ohio State University

About the Author

John F. Hartwig is the Henry Rapoport Chair in Organic Chemistry and Professor of Chemistry at the University of California, Berkeley. Professor Hartwig received his A. B. degree from Princeton and his Ph.D. from the University of California, Berkeley. Subsequently, he was an American Cancer Society Postdoctoral Fellow at the Massachusetts Institute of Technology, joined the Yale University faculty in 1992, and joined the University of Illinois chemistry faculty in July 2006. Professor Hartwig's research focuses on the discovery and mechanistic understanding of organic reactions catalyzed by organometallic complexes. He was one of the originators of palladium-catalyzed cross-coupling reactions to form carbon-heteroatom bonds, as well as palladium-catalyzed coupling of enolates and catalytic functionalization of the terminal C-H bonds in alkanes. He was elected to the National Academy of Sciences in 2012, and was the recipient of the 2008 Mukaiyama Award from the Society of Synthetic Organic Chemistry, Japan, the 2008 International Catalysis Award from the International Association of Catalysis Societies, the 2008 Paul N. Rylander Award of the Organic Reactions Catalysis Society, the 2007 Tetrahedron Young Investigator Award in Organic Synthesis, the 2007 Raymond and Beverly Sackler Prize in the Physical Sciences, and the 2006 ACS Award in Organometallic Chemistry.

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