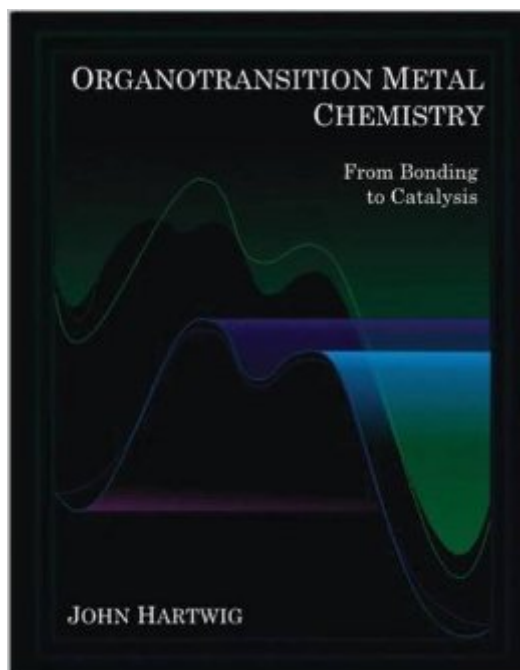


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# Organotransition Metal Chemistry: From Bonding To Catalysis



## Synopsis

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.

## Book Information

Hardcover: 1160 pages

Publisher: University Science books; 1 edition (November 30, 2009)

Language: English

ISBN-10: 189138953X

ISBN-13: 978-1891389535

Product Dimensions: 8.8 x 1.8 x 11.2 inches

Shipping Weight: 6.3 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars See all reviews (18 customer reviews)

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## Customer Reviews

This book is a must-have for anybody doing organometallic chemistry. At 1100 pages, it provides vital information for most areas of organometallic chemistry. This book is very up-to-date, the end of each chapter lists an average of 300+ references that are superscripted in the text. Written predominantly by the master of organometallic chemistry, Professor Hartwig writes in an easy-to-read manner with useful reaction schemes and figures on nearly every page. The sections not written by Hartwig are written by other experts in the field. I can't recommend this book enough, it will make a great contribution to any organic/organometallic chemists bookshelf.

The book was on the suggested reading for my second semester of inorganic chemistry offered at my university. The book flows well unlike some of the books in chemistry and hard sciences in general (it almost read like a novel). The book focuses on reactions to illustrate various concepts (some of my classmates liked this approach, some didn't). Also, the book is extensive: it reserves

10 chapters for reactions that other books treat in a 1-3 chapters. A great majority of the concepts necessary for understanding the reactions and other concepts in the book are included as a form of short reviews. The downside of the book is that it has no problems. Nevertheless, it makes it up by an extensive number of examples and references (references are included at the end of each chapter and can range anywhere from 30 to 500). Although it would be possible to read the book with two semesters of organic chemistry and some knowledge of M.O. theory, I wouldn't recommend this book as a starting point for inorganic chemistry. I recommend reading Huheey's "Inorganic Chemistry" (Chapters 11-15) and DeKock and Gray's "Chemical Structure and Bonding" before reading this book. Although there are some instances where group theory is used in the book, I don't think it necessary to understand group theory extensively to read this text. However, if you want to learn about group theory I suggest Robert L. Carter's "Molecular Symmetry and Group Theory."

If you're looking for a reference text in the field of organometallic chemistry, this book is an excellent option. It has a lot of references that may help if you want to get deeper in some topics. It would be great if some problems were included, but despite that, it's a good book (heavy, big, but a good book).

Excellent reading material for those wishing to go into organometallic research as an intermediate reference. The problem sets introduce concepts clearly and has excellent, up-to-date pictures and graphics of complexes, theoretical knowledge, and mathematical explanations.

If you're a practitioner or serious student of organometallic, organic, or inorganic chemistry, this book is an absolute must-have. Many current organometallic texts focus on explaining basic principles of the subject, but leave detailed discussion of reaction scope, exceptions to trends, etc. to specialized monographs. The beauty of Hartwig's book is that it both clearly explains the basics and discusses, in depth, the "messy" exceptions to the rules that are so important for researchers to be aware of. The chapters in the second half of the book, focusing on important catalytic processes, read like exceptionally clear and well-written review articles. The only serious omission, in my view, is a lack of end-of-chapter problems. An absolutely indispensable book, especially when used alongside a detailed, symmetry-based discussion of molecular orbital theory, such as "Orbital Interactions in Chemistry" by Albright, Burdett, and Whangbo.

Dr. Hartwig, as one of the leaders in organometallic research, has written the best reference on the subject. Any entering graduate student in the field or allied fields will do well to have this tome on their shelf. Many groups use this as the reference for their own research and a cursory glance will tell you why. Filled to the brim with seminal references and on just about every topic imaginable. This book is the organometallic equivalent to organic's Carey and Sundberg's Advanced Organic Chemistry. Great text to bring anyone up to speed in the field while pulling double duty as the first stop for researchers.

This expensive book is not for students. Best for library reference section and for advanced researchers. However material is almost error free. Also it will leave a beginner hate organometallic chemistry as there is no proper organization. No problems or exercises or their solutions

This book arrived quickly, and was in excellent condition. I used this book a lot for my graduate course. It does contain some mistakes, but it is a first edition. I know I will be using this book in the future. It contains not only theory and background, but uses research as examples. Very well written, highly recommended.

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