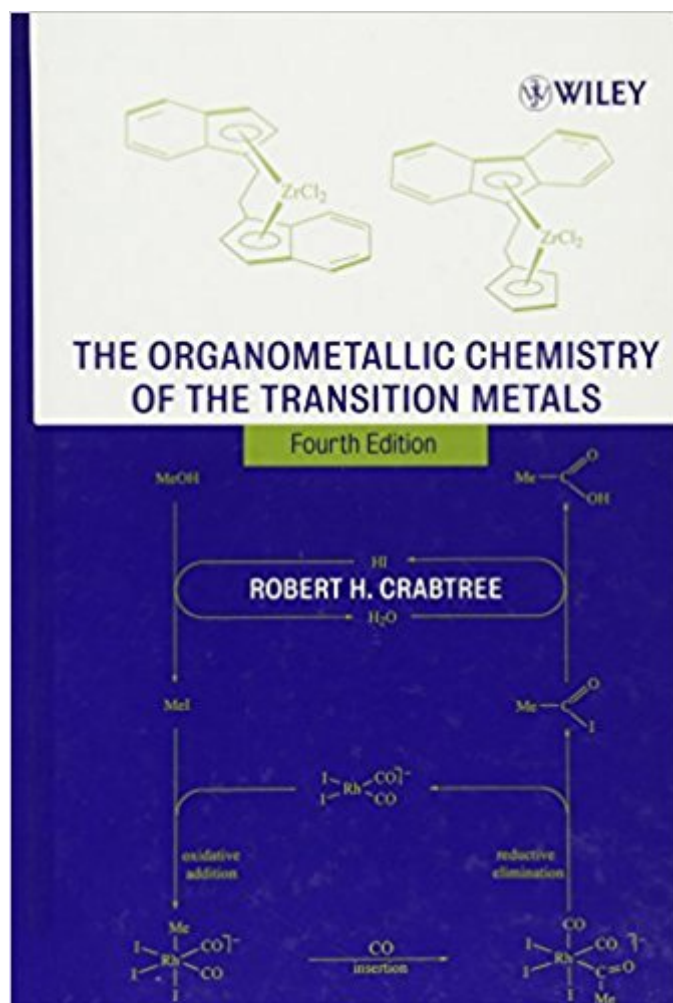


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# The Organometallic Chemistry Of The Transition Metals, 4th Edition



## Synopsis

Fully updated and expanded to reflect recent advances, this Fourth Edition of the classic text provides students and professional chemists with an excellent introduction to the principles and general properties of organometallic compounds, as well as including practical information on reaction mechanisms and detailed descriptions of contemporary applications.

## Book Information

Hardcover: 560 pages

Publisher: Wiley-Interscience; 4 edition (May 5, 2005)

Language: English

ISBN-10: 0471662569

ISBN-13: 978-0471662563

Product Dimensions: 6.5 x 1.3 x 9.4 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 7 customer reviews

Best Sellers Rank: #848,530 in Books (See Top 100 in Books) #13 in Books > Science & Math > Chemistry > Organic > Organometallic Compounds #178 in Books > Science & Math > Chemistry > Inorganic #905 in Books > Medical Books > Medicine > Internal Medicine > Pathology > Clinical Chemistry

## Customer Reviews

"...one impressive and compressive book...this review would have to be book size to do full justice to all the insights in this volume." (Journal of Metals Online, May 23, 3006)

"Each edition of this organometallics book . . . keeps getting better . . . useful as a reference . . . useful for undergraduate and graduate students." [Choice on the Third Edition](#) There have been a number of notable advances in the field of organometallic chemistry over the past decade. Transition metal organometallic chemistry has provided researchers, especially those working in the pharmaceuticals, natural product synthesis, and polymer industries, with powerful new synthetic tools, and the field has expanded to include life science aspects, such as metalloenzymes involving organometallic intermediates and nanotechnology, such as nanoparticles and giant molecules. Fully updated and expanded to reflect recent advances, this Fourth Edition of the classic text provides students and professional chemists with a comprehensive introduction to the principles and general properties of organometallic compounds. It also supplies a wealth of

practical information about relevant reaction mechanisms, along with detailed descriptions of contemporary applications to organic synthesis, organized by reaction type. Additionally, the numerous references to pertinent literature found throughout the text are appreciated by students and professional chemists alike. New to this edition are: A new section on elements of the f-block and expanded coverage of paramagnetic organometallic compounds. Extensively revisions to the chapter on organic synthetic applications including new sections on coupling, metathesis, nucleophilic substitution, Lewis acid reactions, chiral bases and other catalytic reactions Significant updates to the chapter on bioorganometallic chemistry, including hydrogenase, acetyl CoA synthase, and methyl CoM reductase, as well as a discussion of biomedical applications. Bibiliographic references to many useful reviews The Organometallic Chemistry of the Transition Metals, Fourth Edition is an unparalleled pedagogic resource, appropriate as a main text for courses in inorganic chemistry and organometallic chemistry, and as a supplementary text for courses in bioinorganic chemistry. It is also a valuable working reference for professional chemists who need to become better acquainted with the subject.

This was the text book I use in when I took Organometallics in college. I lost it, and it was a frustrating every time I needed to go back for a concept not to have it. Finally I got a new copy, and have it on my bedside table for night enjoyment. It is a good book for beginners, full of good references, and with clear explanations of basic concepts. Organometallic Chemistry has grown immensely during the years, and if you want to find the latest examples of cool chemistry maybe this is not the text you need; however, it would be the one to read first to understand the rest.

This is a very well-written inorganic chemistry text by renowned Yale professor Robert Crabtree. It is neatly organized with great examples and real-world applications.

This book is a good source of basic knowledge in organometallic chemistry. Major theories that allow to predict reactivity are presented. Reader can also find general pathways of synthesis of organometallic compounds. However, sometimes the textbook looks like just a list of experimental facts. Although, it has nice explanations it requires a good understanding of organic chemistry as well as inorganic. So, reader should be prepared. This textbook was required for my class in Graduate school but I still find it very useful and necessary to obtain knowledge in organometallic chemistry.

This is a comprehensive treaty on Inorganic Chemistry. Worth every cent! I use it for reference every time. Great for students conducting research both in undergraduate and graduate school.

This book was recommended for an organometallic class I took in graduate school. I haven't seen many other organometallic textbooks but, in general, this is one of the best textbooks I've used for any class. The wording is easy to understand, and the author explains things in a way suitable for someone who has had no organometallic chemistry and little inorganic chemistry. At the same time it covers a very wide breath of organometallic chemistry. It is a very useful book for any organometallic chemist and any organic chemist who deals with transition metal catalysis.

I'm an organic chemistry graduate student with some inorganic background, but I know very little about organometallics. This book seems to be a very good introduction for someone like me. Well written, understandable, relevant.

Of the organometallic texts I've seen, this is my favorite. It provides a good introduction and eases the reader into heavier material. It's a great reference and a good starting point for learning the subject.

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