



The Organometallic Chemistry of the Transition Metals

By Robert H. Crabtree

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Fully updated and expanded to reflect recent advances, the sixth edition of this bestselling text provides students and professional chemists with a comprehensive 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. Increased focus is given to organic synthesis applications, nanoparticle science, and green chemistry.

This edition features:

- New sections on Multifunctional Ligands, Oxidation Catalysis, and Green Chemistry
- Expanded discussion on topics from the fifth edition: Supramolecular Chemistry, N-Heterocyclic Carbenes, Coupling Reactions, Organometallic Materials, Applications to Organic Synthesis, and Bioorganometallic Chemistry
- End-of-chapter problems and their solutions

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Editorial Review

Review

“Overall, this book is an insightful, detailed and, most importantly, up-to-date view of organometallic chemistry.” (*Applied Organometallic Chemistry*, 14 November 2014)

From the Back Cover

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About the Author

Robert H. Crabtree, Ph. D., is Whitehead professor in the Department of Chemistry at Yale University. He has served on the editorial boards of *Chemical Reviews*, *New Journal of Chemistry*, *Journal of Molecular Catalysis*, and *Organometallics* and has received numerous awards for his research accomplishments including the Centenary Prize of the Royal Society of Chemistry (2014) and the Organometallic Chemistry Prize of the American Chemical Society (1993).

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