



Organometallic Chemistry

Gary O. Spessard, Gary L. Miessler

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Designed with the needs of both undergraduate and graduate students in mind, *Organometallic Chemistry*, Second Edition, covers the fundamentals of organometallic chemistry by presenting seminal experiments, analyzing real data, and offering the most comprehensive problem sets available. The text opens with careful and patient explanations of the structure and bonding of organometallic compounds, providing a uniquely accessible introduction to the subject for undergraduate students. Later chapters build on this foundation with in-depth coverage of organometallic reaction mechanisms, more advanced topics of catalysis, carbene complexes, metathesis, applications of organometallic chemistry to organic synthesis, and cluster compounds.

FEATURES

- * **Numerous in-chapter worked examples and expansive end-of-chapter problem sets.** Covering a wide spectrum of difficulty, the end-of-chapter problems range from basic practice problems to more advanced analytical ones; many of these are directly referenced to the current chemical literature.
- * **An experimental approach--illustrated by both groundbreaking classic experiments and cutting-edge contemporary ones--** that not only teaches students what is now known about organometallic chemistry, but also *how we know what we know*
- * **Real-world applications--highlighted throughout the text--** that engage students and reveal the relevance of organometallic chemistry to the world of industry

NEW TO THE SECOND EDITION

- * **Updated and expanded coverage of the latest developments in the field**, including IR, NMR, and mass spectroscopy; catalysis; carbene complexes; metathesis and polymerization; and applications to organic synthesis
- * **More extensive treatments of industrial applications**, including hydroformylation, uses of Grubbs and Schrock metal carbene catalysts, SHOP, palladium-catalyzed cross-couplings, and more
- * **50% more in-chapter worked examples and expansive end-of-chapter problem sets than the previous edition**
- * **25% more in-chapter exercises (with answers in Appendix B) than the previous edition**
- * **A new focus on green chemistry** that reveals how well its principles mesh with those of organotransition metal catalysis
- * **Introduction of the 18-electron rule** (Chapter 3)
- * **New computational approaches** to molecular orbital calculations (Chapter 2)
- * **25% more molecular model illustrations than the previous edition.** The text now includes more than

600 illustrations and structures, including 120 brand-new figures; all preexisting figures have been revised for clarity and consistency.

Organometallic Chemistry, Second Edition, is supplemented by an **Instructor's Resource CD-ROM**, which includes all of the figures from the text in electronic format and the solutions to all of the exercises and problems from the text (in an editable Word file format).

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