



The Organometallic Chemistry of the Transition Metals

Robert H. Crabtree

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A comprehensive introduction to principles and practices 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 certain life science aspects, such as metalloenzymes involving organometallic intermediates. Fully updated and expanded to reflect recent advances, this Third 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 sections covering: Coupling reactions C-F bond activation Giant molecules Paramagnetic organometallics Surface organometallic chemistry Additionally, those sections covering metal alkyls, aryls, hydrides, metallocene polymerization, and related s-bonded ligands have been substantially revised and updated. The Organometallic Chemistry of the Transition Metals, Third 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.

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