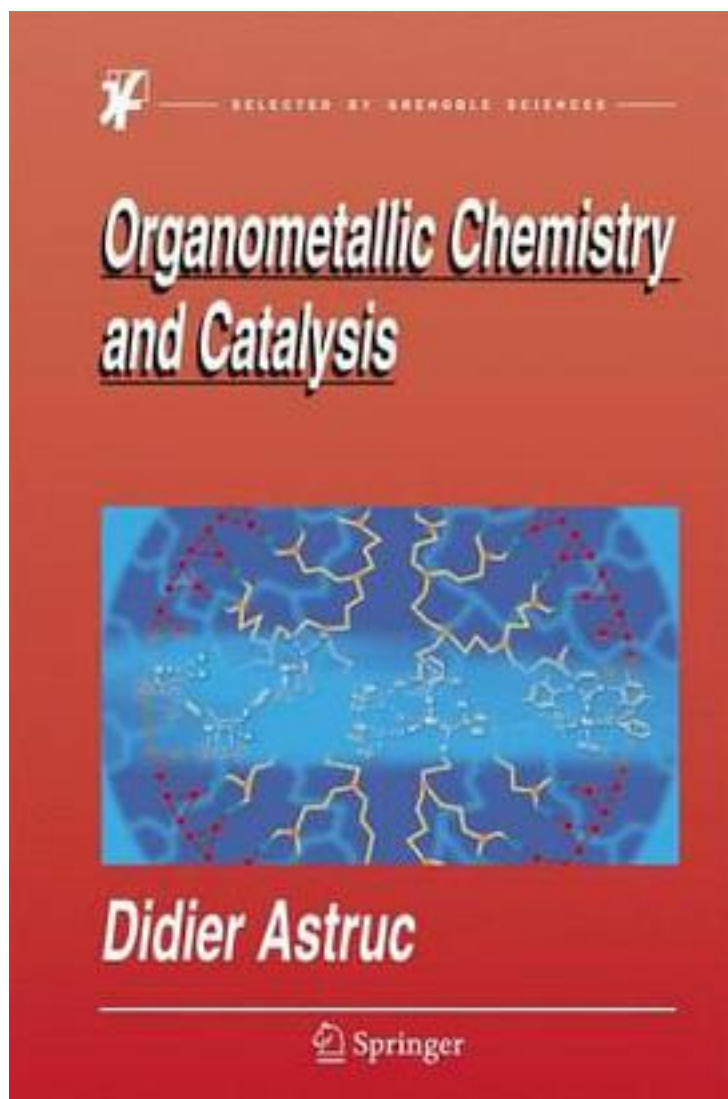


Organometallic Chemistry and Catalysis



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This tutorial volume covers the basic and advanced aspects of organometallic chemistry of all metals and related catalysis topics. It treats historical background, concepts (including structures of mono- and polymetallic complexes), molecular orbitals, reactivity, implications in biology and applications to organic synthesis and catalysis. The catalysis section includes the challenging activation and functionalization of the main classes of hydrocarbons and the industrially crucial heterogeneous catalysis. Chapter-end summaries and exercises support self- and group study, with solutions included at the end of the book. 500 selected references complement the text for further reading. Chapter-length treatment of green chemistry, plus many recent international research results, round out this highly accessible textbook. Organometallic Chemistry and Catalysis can profitably be read by beginners such as undergraduate and graduate students, as well as engineers, researchers and molecular scientists from academy and industry.

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