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Sommario/riassunto	Catalysts play a crucial role in the path towards the transformation of organic compounds. This book describes the recent development of metal-based catalysis in organic synthesis. Applications of various catalysts to interesting organic transformations are discussed. It covers important organic reactions such as cyclohexane oxidation under different energy stimuli, use of Pd-nanoparticles for carbonylation of aniline, ammoximation of methyl ethyl ketone by Ni-modified TS-1 and carbozincation of substituted 2-alkynylamines. This book will be a useful reference for researchers in the field of catalysis, organic chemistry and materials science. It is also intended to attract the attention of researchers with an industrial interest