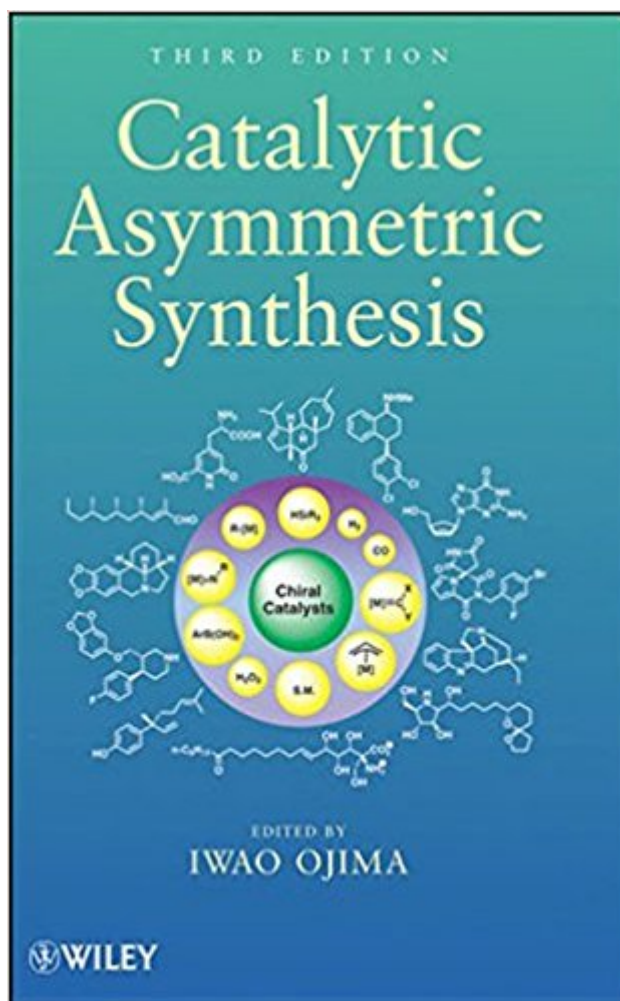


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Catalytic Asymmetric Synthesis



Synopsis

Praise for the previous editions "An excellent text . . . will no doubt provide the benchmark for comparative works for many years." â "Journal of the American Chemical Society "An excellent state-of-the-art compilation of catalytic asymmetric chemistry . . . should be included in any chemistry reference collection." â "Choice "This is a tremendous resource and an excellent read. I recommend immediate purchase." â "Perkin Transactions Since this important work was first published in 1993, the field of catalytic asymmetric synthesis has grown explosively, spawning effective new methods for obtaining enantiomerically pure compounds on a large scale and stimulating new applications in diverse fieldsâ "from medicine to materials science. Catalytic Asymmetric Synthesis, Third Edition addresses these rapid changes through contributions from highly recognized world leaders in the field. This seminal text presents detailed accounts of the most important catalytic asymmetric reactions known today, and discusses recent advances and essential information on the initial development of certain processes. An excellent working resource for academic researchers and industrial chemists alike, the Third Edition features: Six entirely new chapters focusing on novel approaches to catalytic asymmetric synthesis including non-conventional media/conditions, organocatalysis, chiral Lewis and Bronsted acids, CH activation, carbon-heteroatom bond-forming reactions, and enzyme-catalyzed asymmetric synthesis A new section focusing on the important new reaction, asymmetric metathesis, in carbon-carbon bond-forming reactions Updated chapters on hydrogenation, carbon-carbon bond-forming reactions, hydrosilylations, carbonylations, oxidations, amplifications and autocatalysis, and polymerization reactions Retaining the best of its predecessors but now thoroughly up to date, Catalytic Asymmetric Synthesis, Third Edition serves as an excellent desktop reference and text for researchers and students from the upper-level undergraduates through experienced professionals in industry or academia.

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Customer Reviews

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IWAO OJIMA, PhD, a world-renowned leader in asymmetric catalysis, medicinal chemistry, and drug discovery, is the Distinguished Professor of Chemistry and the Director of the Institute of Chemical Biology and Drug Discovery at the State University of New York at Stony Brook. He is a recipient of numerous awards, including the Arthur C. Cope Scholar Award (ACS), the Chemical Society of Japan Award, and the E. B. Hershberg Award (ACS). He is a Fellow of the Guggenheim Foundation, the American Association for the Advancement of Science, and the New York Academy of Sciences. Dr. Ojima was inducted to the Medicinal Chemistry Hall of Fame (ACS) in 2006.

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