



Catalytic Asymmetric Synthesis

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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 fields—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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