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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
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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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Editorial Review

Review

"In summary, this is a comprehensive and up-to-date detailed textbook, excellent for reference, for gaining a rapid appreciation of what has been achieved in asymmetric catalysis, while suggesting the many directions it might be going in the future." (*Applied Organometallic Chemistry*, 6 March 2015)

"This is a well-prepared monograph that offers practical entries to the current literature for students or practitioners seeking a foundation in a particular area of asymmetric catalysis to support proposals or projects. . . Thus, the book has broad appeal; it should be useful for chemists at all levels, for graduate students and academic instructors to senior scientists and principal investigators." (*Journal of Medicinal Chemistry*, 16 June 2011)

"This third edition of *Catalytic Asymmetric Synthesis* remains at the forefront of literature resources, and should be added to all chemistry reference collections. Summing Up: Highly recommended. Upper-division undergraduates through professionals." (*Choice*, 1 July 2011)

"An excellent working resource for academic researchers and industrial chemists alike . . . 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." (*Organic Chemistry Portal*, 1 May 2011)

"Overall, this book would be a useful addition to the library of a scientist engaged in catalysis in general and in asymmetric catalysis in particular. It is clearly a must-have for any comprehensive library.." (*JACS*, 2010)

About the Author

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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Katie Doll:

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