DESCRIPTION

This book introduces multi-catalyst systems by describing their mechanism and advantages in asymmetric catalysis.

• Helps organic chemists perform more efficient catalysis with step-by-step methods

• Overviews new concepts and progress for greener and economic catalytic reactions

• Covers topics of interest in asymmetric catalysis including bifunctional catalysis, cooperative catalysis, multimetallic catalysis, and novel tandem reactions

• Has applications for pharmaceuticals, agrochemicals, materials, and flavour and fragrance

ABOUT THE AUTHOR

Jian Zhou is a Professor of Chemistry in the Shanghai Key Laboratory of Green Chemistry and Chemical Processes at East China Normal University. He has broad experience in asymmetric catalysis and has published over 30 papers in leading scientific journals after his independent research. Dr. Zhou’s research focuses on the development of new chiral catalysts and catalytic asymmetric reactions for the efficient construction of fully substituted stereogenic carbon centres, as well as economical synthesis and novel tandem reactions.