Multicatalyst System in Asymmetric Catalysis

Description:
Methods and applications of multicatalyst systems in asymmetric catalysis

Asymmetric catalysis plays an important role in the synthesis of chiral compounds, due to their high efficiency and selectivity that traditional methods cannot reach. This book provides details about the mechanism and advantages of multicatalysis systems in asymmetric catalysis. Examples in this book introduce the difference between multifunctional catalysis and multiple catalyst systems and cover the important and exciting results of multiple catalyst promoted asymmetric reactions and novel tandem reactions. Using examples and step-by-step methods, the chapters cover a variety of pertinent topics including:

- Additive-enabled asymmetric metric catalysis
- Asymmetric multifunctional catalysis
- Asymmetric cooperative catalysis
- Asymmetric double activation catalysis, assisted catalysis, photochemical and electrochemical methods
- Multicatalyst system realized asymmetric tandem reaction
- Waste-mediated Reactions
- Multicatalyst system mediated asymmetric reactions in total synthesis

In addition, this book focuses on applications and greener ways to make useful substances for pharmaceuticals, agrochemicals, materials, and flavour and fragrance industries.

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