Green Chemistry and Catalysis

Description: The expression "Green Chemistry" is used to describe chemical processes that take into consideration sustainable development and environmentally improved products, as well as other aspects to make the reaction "cleaner". In recent years, this principle has become very important, with "Green Catalysis" a major topic within this field.

Written by Roger A. Sheldon and his co-workers, this first book to focus on catalytic processes from the viewpoint of green chemistry presents every important aspect:

- Numerous catalytic reductions and oxidations methods
- Solid-acid and solid-base catalysis
- C-C bond formation reactions
- Biocatalysis
- Asymmetric catalysis
- Novel reaction media like e.g. ionic liquids, supercritical CO2
- Renewable raw materials.

The result is a unified, indispensable source for all scientists looking to improve their catalytic reactions, whether in the college or company lab.

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Green Chemistry: The Road to Sustainability

Catalysis and Green Chemistry

The Medium is the Message

Metabolic Engineering and Cascade Catalysis


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