



Homogeneous Catalysis: Mechanisms and Industrial Applications

Sumit Bhaduri, Doble Mukesh

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Over the last decade, the area of homogeneous catalysis with transition metal has grown in great scientific interest and technological promise, with research in this area earning three Nobel Prizes and filing thousands of patents relating to metallocene and non-metallocene single site catalysts, asymmetric catalysis, carbon-carbon bond forming metathesis and cross coupling reactions.

This text explains these new developments in a unified, cogent, and comprehensible manner while also detailing earlier discoveries and the fundamentals of homogeneous catalysis. Serving as a self-study guide for students and all chemists seeking to gain entry into this field, it can also be used by experienced researchers from both academia and industry for referring to leading state of the art review articles and patents, and also as a quick self-study manual in an area that is outside their immediate expertise. The book features:

- Topics including renewable feed stocks (biofuel, glycerol), carbon dioxide based processes (polycarbonates), fluoruous solvents, ionic liquid, hydroformylation, polymerization, oxidation, asymmetric catalysis, and more
- Basic principles of organometallic chemistry, homogeneous catalysis, and relevant technological issues
- Problems and answers, industrial applications (case studies), and examples from proven industrial processes with clear discussions on environmental and techno-commercial issues
- Extensive references to cutting edge research with application potential and leading patents
- Tables and illustrations to help explain difficult concepts

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