

Catalysis

Concepts and Green Applications

This introductory textbook covers all aspects of catalysis. It also bridges computational methods, industrial applications and green chemistry, with over 600 references. The book is aimed at chemistry and chemical engineering students, and is suitable for both senior undergraduate- and graduate-level courses, with many examples and hands-on exercises. The author, a renowned researcher in catalysis, is well known for his clear teaching and writing style (he was voted "lecturer of the year" by the chemistry students). Following an introduction to green chemistry and the basics of catalysis, the book covers the principles and applications of homogeneous catalysis, heterogeneous catalysis and biocatalysis. Each chapter includes up-to-date industrial examples, that demonstrate how catalysis helps our society reach the goals of sustainable development.

Since its publication in 2008, *Catalysis: Concepts and Green Applications* has become the most popular textbook in catalysis. This second edition is updated with the latest developments in catalysis research in academia and industry. It also contains 50 additional exercises, based on the suggestions of students and teachers of chemistry and chemical engineering from all over the world.

The book is also available in the Chinese language (<https://detail.tmall.com/item.htm?spm=a212k0.12153887.0.0.4e60687dUTEDKm&id=619581126247>).

Additional teaching material (original figures as PowerPoint lecture slides) is freely available in the Supplementary Material.

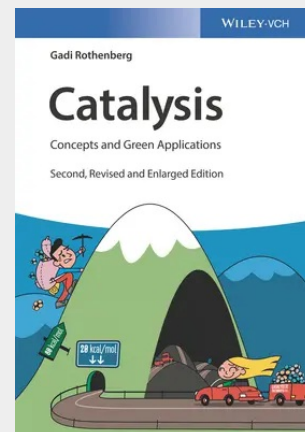
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