



Catalysis: Concepts and Green Applications

By Gadi Rothenberg

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Catalysis: Concepts and Green Applications By Gadi Rothenberg

This introductory textbook covers all aspects of catalysis. It also bridges computational methods, industrial applications and green chemistry, with over 700 references. The author, a renowned researcher in catalysis, teaches scientific writing as well as chemistry. This makes him the ideal person to write such a textbook. The effectiveness of his practical approach has been well proven in courses for undergraduates and graduates (in 2007 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 biocatalysis, homogeneous catalysis and heterogeneous catalysis, as well as computer applications in catalysis research.

Each chapter also features integrated exercises that help students prepare for their exams.

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Editorial Review

Review

"Everything about this book is reader-friendly, from the well-designed figures and the use of color to the complete titles in the references. The writing is crisp and engaging, with morsels of historical facts and details scattered throughout the text." (*Journal of Chemical Education*, February 2010)

"I read this book with great pleasure. It is well worth the affordable priceVery readable and informative, with some interspersed historic annotations, which make certain developments easier to understand." (*ChemSusChem*, December 2008)

"The author's highly readable and concise style results in a comprehensive treatment of catalysis that will make of this book a lasting reference for chemistry scholars at all levels." (*Advanced Synthesis and Catalysis*, September 2008)

"This book will help graduate students and pharmaceutical scientists and technologists enhance their understanding of green-chemistry applications and their implications for the environment. It is a useful resource for professionals seeking synthetic methods that are efficient and environmentally benign." (*Pharmaceutical Technology Magazine*, September 2, 2008)

"This book is informative and fascinating, and will be a solid work for catalysis course or a worthwhile investment for an interested student." (*CHOICE*, September 2008)

One of those timely books that does not leave you empty-handed ... The more I read the book the more interested and surprised I was. (*Chemistry World*, July 2008)

From the Back Cover

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About the Author

Gadi Rothenberg is Professor at the Van 't Hoff Institute for Molecular Sciences at the University of Amsterdam, where he teaches courses on catalysis, thermodynamics and scientific writing. He has published over 80 papers in peer-reviewed journals and discovered two catalysts, for which he received the Marie Curie Excellence Award in 2004 and the Paul Rylander Award in 2006. Rothenberg also invented a method for monitoring pollutants in water, and co-founded the companies Sorbisense and Yellowdiesel. In 2007 he was voted 'teacher of the year' by the chemistry students. He is married, owns no car, and has a black belt in Shaolin Kung-Fu.

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