

usefulness of classical intuition, manifest particularly in the relation between wave packet motion and the classical notion of a trajectory.

Another strong point of the book is the range of topics considered. It discusses the essentials of TD quantum mechanics (wave packets, coherent states, correlation functions, Fourier transforms, etc), but also computational techniques and a number of timely problems: multiphoton spectroscopy, dynamics of molecules under strong fields, various aspects of femtochemistry including the clocking and coherent control of molecular fragmentation, and also TD approaches to the dynamics of photodissociation and reactive molecular collisions.

While suitable for advanced quantum mechanics courses, this very good book is likely to be most useful for practitioners of quantum mechanics, in particular those at early stages of a career involving research in molecular dynamics.

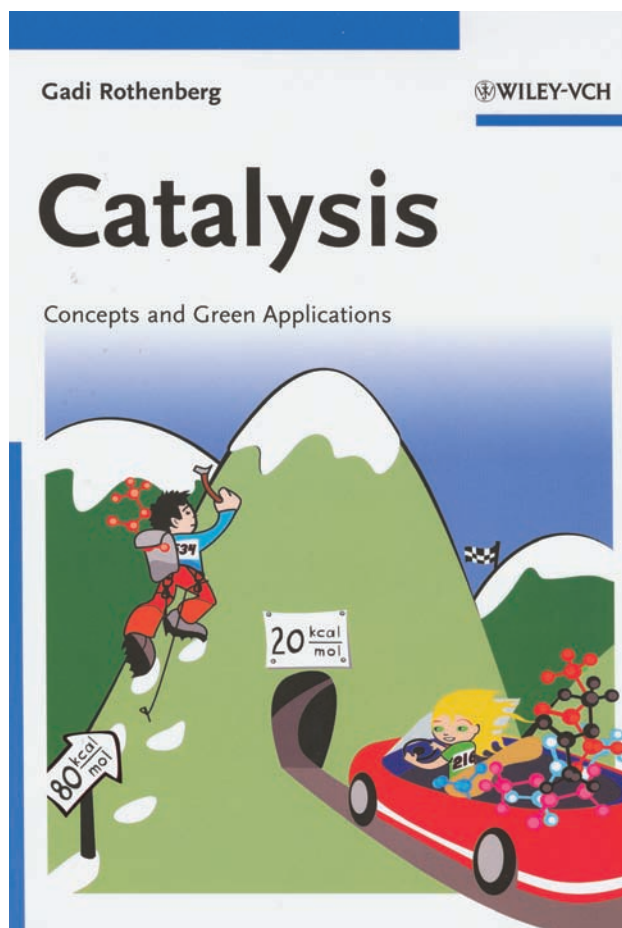
Speeding up the chemistry in our lives

Catalysis: concepts and green applications

Gadi Rothenberg
Weinheim, Germany: Wiley-VCH
2008 | 279 pp | £45.00 (HB)
ISBN 9783527318247
Reviewed by Rafael Luque

This is one of those timely books that does not leave you empty-handed. When I first got the book and opened it I thought to myself 'okay, another catalysis book'. To my delight, the more I read the book the more interested and surprised I was.

It is indeed a perfect balanced monograph that contains equal pieces of information about all the different types of catalysis including the basics, homogeneous, heterogeneous and enzymatic catalysis with the icing being a chapter devoted to



computer applications in catalysis research.

Catalysis: concepts and green applications is written clearly and all sections are well explained for beginners in the catalysis field. The figures are intuitive and easy to comprehend.

The book is primarily focused on green chemistry, which adds value to the environmentalist buyer who will benefit from both the clarity and content of the book as well as the incorporated sustainable aspects.

The inclusion of various exercises in each chapter (with online available answers) is a fresh and smart idea that helps the reader going through the book, making it even more attractive.

In summary, this book should be a must have in the collection of any undergraduate or recent graduate (catalytic) chemist as well as to the general public interested in catalysis with a minimum chemistry background.

Finding an easy way through the energy mountain

'More than just another catalysis book'

Chemistry at the interfaces

Molecules and medicine

E J Corey, B Czako and L Kürti
Hoboken, US: John Wiley & Sons,
2007 | 254pp | £26.50 (SB), £52.95 (HB)
ISBN 978047027497
Reviewed by Karl Hemming

The interface of chemistry, biology, drug discovery and medicine coupled with the desire to reach a broad readership presents a text directed at both the professional educator/researcher and undergraduate in those disciplines, and at the educated and scientifically literate general reader.

Like many texts of this type, the professional educator/researcher may come away disappointed by the limited coverage and lack of depth. However, this section of the target audience should find this book to be a very useful resource with much of interest in the integrated approach and in the excellent reference sections that are provided.

The undergraduate reader, be they chemist, biologist or pharmacist, will find this an interesting and valuable read which demonstrates the integrated nature of this diverse subject and which seeks to broaden their knowledge.

Non-chemists and the scientifically literate general reader will gain the most from this text – a clear and informative introductory section (which chemists can skip) guides such readers through the basics of organic structural diagrams and protein structure, and sets the scene well for a consideration of over one hundred of the most significant and commonly used small drug molecules (defined as having molecular masses in the hundreds). These molecules are placed into sections covering the common therapeutic areas where each area is given a brief scientific overview and where each drug molecule is given one page of coverage, with references for those who require a more advanced treatment.

In summary, this book is intended for a wide audience and contains much that will engage the specialist and general reader alike.