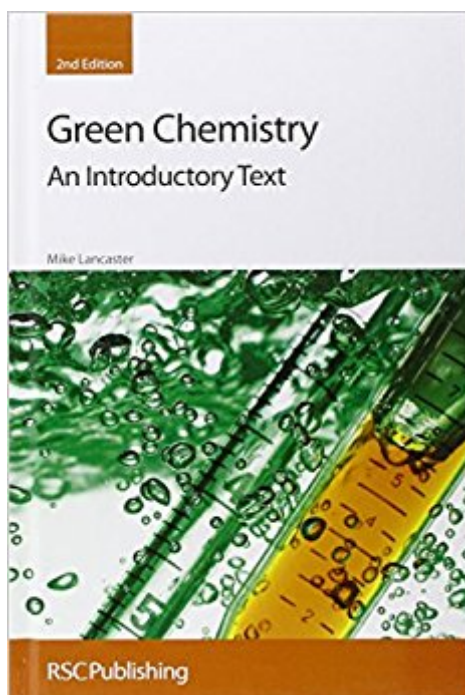


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Green Chemistry: An Introductory Text



Synopsis

Sustainable development and environmental issues are at the forefront of public and Government concern. Chemistry and Chemical Engineering may offer the solution to many of these challenges, but chemicals can also be part of the problem. Green chemistry aims to provide environmentally benign products from sustainable resources, using processes that do not harm people or the environment. Aimed at undergraduate and postgraduate students, this introduction to green chemistry encourages new ways of thinking about how products and processes are developed. These include methods of waste minimization, use of renewable feed stocks and the role of catalysis in reducing raw material use. The text is easy to understand and particularly relevant to courses on . It includes case studies and real examples from industry to demonstrate how the techniques work in practice.

Book Information

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Customer Reviews

Green Primers Green Chemistry. An Introductory Text Mike Lancaster RSC Publishing, Cambridge, UK, 2010, 340pp (HB) ISBN 9781847558732 Reviewed by Lucy Mitton '... Lancaster was the former manager of the UK's Green Chemistry Network, and his book, Green chemistry: an introductory text, is a genuine introduction to the subject for undergraduate and postgraduate students, based as it is on clean chemical technology modules taught at the University of York. Much of the book should be understood by a general readership. Starting from the 12 principles of green chemistry expounded by Paul Anastas in 1998, Lancaster, in a series of well written chapters, discusses such topics as waste minimisation, catalysis, solvents, environmental performance,

renewable resources and alternative energy sources. Lancaster's book is not just about green chemistry in the laboratory, but has several chapters on the industrial scene - developing greener technologies and processes as illustrated in a series of industrial case studies.' *Chemistry World*, 2010, 7(8), p. 64

Sustainable development and environmental issues are at the forefront of public and Government concern. Chemistry and Chemical Engineering may offer the solution to many of these challenges, but chemicals can also be part of the problem. Green chemistry aims to provide environmentally benign products from sustainable resources, using processes that do not harm people or the environment. Aimed at undergraduate and postgraduate students, this introduction to green chemistry encourages new ways of thinking about how products and processes are developed. These include methods of waste minimization, use of renewable feed stocks and the role of catalysis in reducing raw material use. The book includes case studies and real examples from industry.

This is a great book, easy to read and understand. Contains important concepts about going green. It helps you understand different chemical processes on how new products can be made and how industries can perform alternative routes to end at the same product.

An excellent scholarly book, not only possessing the foundations of green chemistry, but also possessing case studies....I look forward to teaching a special topics course with it in the near future.

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