



Green Chemistry: An Introductory Text

By Mike Lancaster

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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.

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Editorial Review

Review

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

From the Back Cover

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About the Author

Mike Lancaster has more than 20 years experience in the chemical industry, mainly with BP in a variety of R&D and Business Management roles. He established the Green Chemistry Network and a Masters course in Clean Technology at the University of York. He has spent the last 6 years with the Chemical Industries Association and has been heavily involved in developing and promoting the sustainable development agenda.

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