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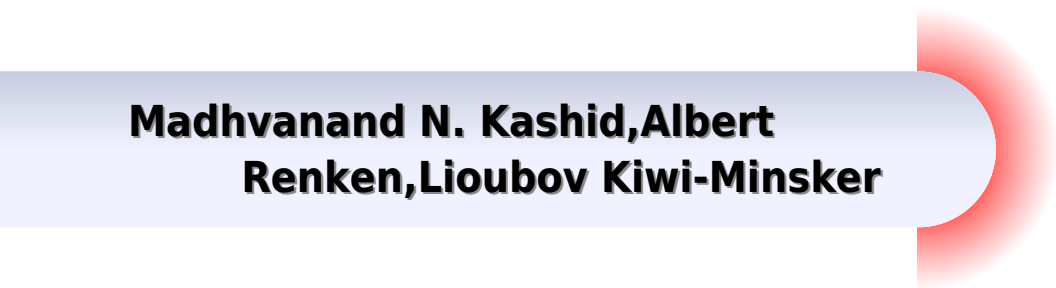
Sustainable Industrial Chemistry

Principles, Tools and Industrial Examples



Sustainable Industrial Chemistry Principles Tools And Industrial Examples

**Madhvanand N. Kashid,Albert
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Sustainable Industrial Chemistry Principles Tools And Industrial Examples:

Sustainable Industrial Chemistry Fabrizio Cavani, Gabriele Centi, Siglinda Perathoner, Ferruccio Trifirò, 2009-11-23 In recent years the need for sustainable process design and alternative reaction routes to reduce industry's impact on the environment has gained vital importance. The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible. Specific examples written by experts from industry cover the possibilities of running industrial chemical processes in a sustainable manner and provide an up-to-date insight into the main concerns: e.g. the use of renewable raw materials, the use of alternative energy sources in chemical processes, the design of intrinsically safe processes, microreactor and integrated reaction separation technologies, process intensification, waste reduction, new catalytic routes and/or solvent and process optimization. Sustainable Industrial Chemistry

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Genserik L. L. Reniers, Kenneth Sørensen, Karl Vrancken, 2013-03-20 Approaching sustainability from the perspectives of engineering and multiple scientific disciplines, this book incorporates the concepts of intergenerational equity and ecological capabilities while promoting scientific rigor for the analysis of sustainability and the use of appropriate metrics to determine the comparative merits of alternatives. The chapters are organized around the key non-technological themes of sustainable industrial chemistry and provide an overview of the managerial principles to enhance sustainability in the chemicals sector. The book strives to provide an intellectual forum and stimulus for defining the roles chemical engineers can play in achieving sustainable development. Suitable for industry and graduate education, this is the one-stop guide to greener, cleaner, economically viable and more efficient chemical industries. **Chemistry for Sustainable Technologies**

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application in the context of its environmental impact past present and future and of the changes needed to bring about a more sustainable yet equitable world Progress since 2010 is reflected by the inclusion of the latest research and thinking selected and discussed to put the advances concisely in a much wider setting historic scientific technological intellectual and societal The treatment also examines the complexities and additional challenges arising from public and media attitudes to science and technology and associated controversies and from the difficulties in reconciling environmental protection and global development While the book stresses the central importance of rigour in the collection and treatment of evidence and reason in decision making to ensure that it meets the needs of an extensive community of students it is broad in scope rather than deep It is therefore appropriate for a wide audience including all practising scientists and technologists Extracts from reviews of the first edition The book forms the basis for a superb training course on sustainability from a chemist's viewpoint and a wonderful introduction to the subject for undergraduates and postgraduates this unique book is highly recommended reading for all chemists Trevor Laird Org Process Res Dev 2013 17 7 991 I would even go so far as to recommend this to any serious graduate or undergraduate scientist as a must read David Harwood Reviews A Guide to Publications in the Physical Sciences 2011 12 1 9

Design And Applications Of Single-site Heterogeneous Catalysts: Contributions To Green Chemistry, Clean Technology And Sustainability John Meurig Thomas, 2012-04-16 For far too long chemists and industrialists have relied on the use of aggressive reagents such as nitric and sulphuric acids permanganates and dichromates to prepare the massive quantities of both bulk and fine chemicals that are needed for the maintenance of civilised life materials such as fuels fabrics foodstuffs fertilisers and pharmaceuticals Such aggressive reagents generate vast quantities of environmentally harmful and often toxic by products including the oxides of nitrogen of metal oxides and carbon dioxide Now owing to recent advances made in the synthesis of nanoporous solids it is feasible to design new solid catalysts that enable benign mild oxidants to be used frequently without utilising solvents to manufacture the products that the chemical pharmaceutical agro and bio chemical industries require These new solid agents are designated single site heterogeneous catalysts SSHCs Their principal characteristics are that all the active sites present in the high area solids are identical in their atomic environment and hence in their energy of interaction with reactants just as in enzymes Single site heterogeneous catalysts now occupy a position of growing importance both academically and in their potential for commercial exploitation This text the only one devoted to such catalysts dwells both on principles of design and on applications such as the benign synthesis of nylon 6 and vitamin B3 It equips the reader with unifying insights required for future catalytic adventures in the quest for sustainability in the materials used by humankind Anyone acquainted with the language of molecules including undergraduates in the physical and biological sciences as well as graduates in engineering and materials science should be able to assimilate the principles and examples presented in this book Inter alia it describes how clean technology and green processes may be carried out in an environmentally responsible manner

Microstructured Devices for Chemical Processing Madhvanand N. Kashid, Albert Renken, Liubov Kiwi-Minsker, 2014-12-22 Faster cheaper and environmentally friendly these are the criteria for designing new reactions and this is the challenge faced by many chemical engineers today Based on courses taught by the authors this advanced textbook discusses opportunities for carrying out reactions on an industrial level in a technically controllable sustainable cost effective and safe manner Adopting a practical approach it describes how miniaturized devices mixers reactors heat exchangers and separators are used successfully for process intensification focusing on the engineering aspects of microstructured devices such as their design and main characteristics for homogeneous and multiphase reactions It addresses the conditions under which microstructured devices are beneficial how they should be designed and how such devices can be integrated in an existing chemical process Case studies show how the knowledge gained can be applied for particular processes The textbook is essential for master and doctoral students as well as for professional chemists and chemical engineers working in this area

Environment & Sustainable Development 2025 Volume-IV Dr. Sonali Das, Dr. Maddi Viswanadha Reddy, Dr. Sahebrao Uttam Deore, 2025-08-10

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CO2: A Valuable Source of Carbon Marcello De De Falco, Gaetano Iaquaniello, Gabriele Centi, 2013-07-30 As the annual production of carbon Dioxide CO₂ reaches 30 billion tones the growing issue of the greenhouse effect has triggered the development of technologies for CO₂ sequestration storage and use as a reactant Collecting together the reports of the Congress at

University of Rome Campus Bio medico held 16th April 2012 CO2 A Valuable Source of Carbon presents and discusses promising technologies for the industrial exploitation of CO2 Divided into two parts the current technology is evaluated and summarized before European and national projects are presented The focus on CO2 recovery particularly in value added production proposes applicable methods to develop sustainable practices and even to mitigate greenhouse gas emission from large scale fossil fuels usage Including current data and real world examples CO2 A valuable source of carbon provides students engineers researchers and industry professional with up to date material and potential areas for development and research

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