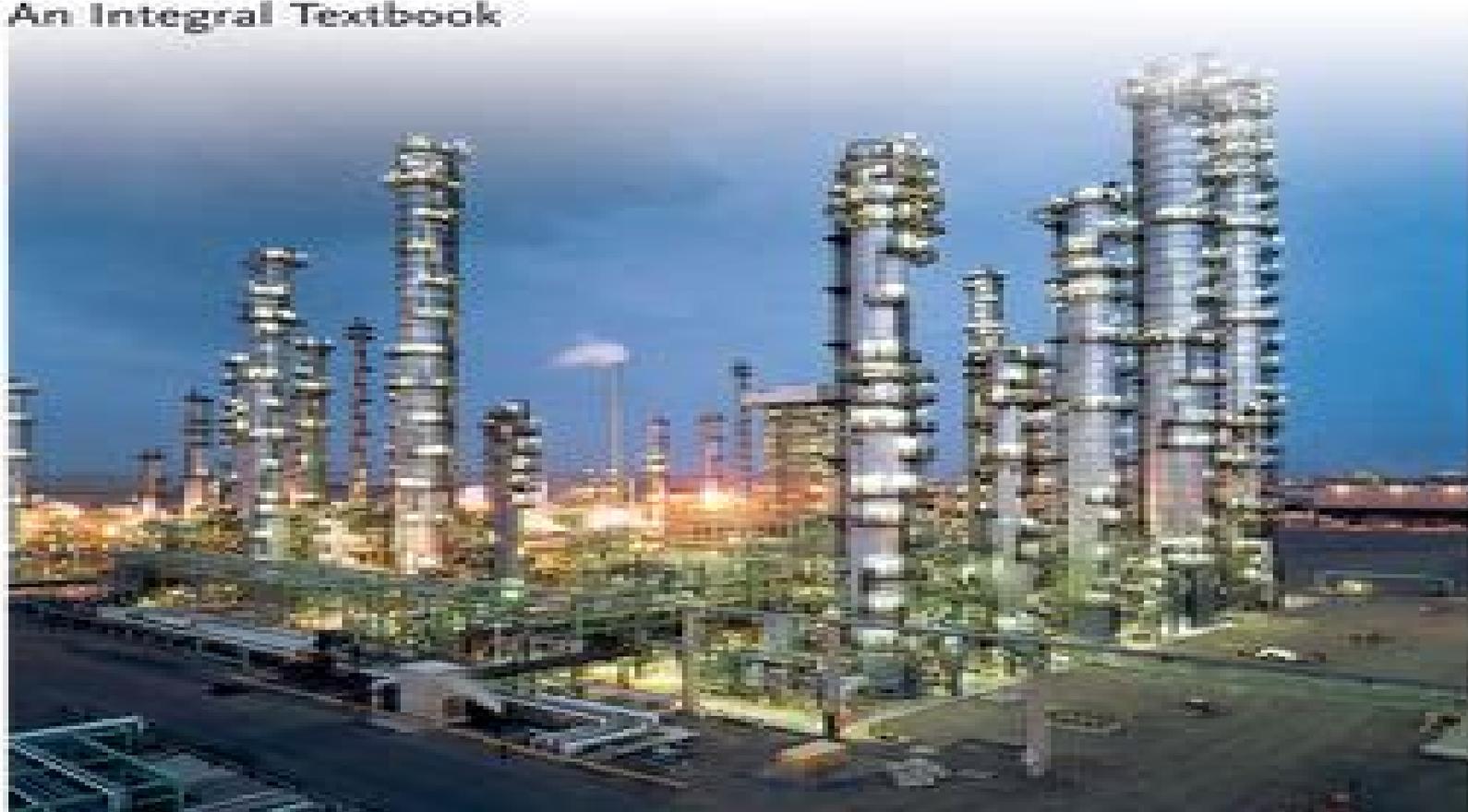


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Reactive and Membrane-Assisted Separations Philip Lutze,Andrzej Górak,2016-07-28 Process intensification aims for increasing efficiency and sustainability of bio chemical production processes This book presents strategies for improving fluid separation such as reactive distillation reactive absorption and membrane assisted separations The authors discuss computer simulation model development methodological approaches for synthesis and the design and scale up of final industrial processes

Catalysis Gadi Rothenberg,2017-09-01 This introductory textbook covers all aspects of catalysis It also bridges computational methods industrial applications and green chemistry with over 600 references The book is aimed at chemistry and chemical engineering students and is suitable for both senior undergraduate and graduate level courses with many examples and hands on exercises The author a renowned researcher in catalysis is well known for his clear teaching and writing style 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 the principles and applications of homogeneous catalysis heterogeneous catalysis and biocatalysis Each chapter includes up to date industrial examples that demonstrate how catalysis helps our society reach the

goals of sustainable development Since its publication in 2008 *Catalysis Concepts and Green Applications* has become the most popular textbook in catalysis This second edition is updated with the latest developments in catalysis research in academia and industry It also contains 50 additional exercises based on the suggestions of students and teachers of chemistry and chemical engineering from all over the world The book is also available in the Chinese language <https://detail.tmall.com/item.htm?spm=a212k0.12153887.0.0.4e60687dUTEDKm&id=619581126247> Additional teaching material original figures as PowerPoint lecture slides is freely available in the Supplementary Material

Handbook Of Energy, Environment, And The Circular Economy - Volume 1: From Fossil Fuels To Sustainable Business Models Gadi Rothenberg, Vitaly Gitis, 2024-07-26 The Handbook of Energy Environment and the Circular Economy covers a range of topics related to sustainable practices in energy production consumption and waste management It explores strategies for integrating renewable energy sources into the economy reducing greenhouse gas emissions and promoting sustainable development that is in harmony with the natural environment The first volume contains chapters spanning topics from the future of fossil fuels through wastewater management and electric vehicle EV battery recycling all the way to sustainable business models Coming from academia and industry the editors and chapter authors are known for their didactic skills as well as their technical expertise The text contains many high quality colourful illustrations and examples as well as thousands of up to date references to peer reviewed articles reports and websites for further reading This comprehensive and well written handbook is a must have reference for universities research groups and companies working in the fields of energy environment and the circular economy

Optimizing photocatalysts and photoreactors for solar fuel synthesis Kant, Paul Philipp, 2023-12-28 The work represents a toolbox for the design of a highly efficient photocatalytic process for solar driven synthesis The focus is the optimization of photoreactors and photocatalysts The described photoreactor design strategy is based on numerical methods mapping radiation transport and additive manufacturing delivering prototypes The photocatalyst engineering is based on suitable photocatalyst support strategies and a method for the determination of the quantum yield in photoreactions

Hydrogen Production, Transportation, Storage, and Utilization Sohrab Zendehboudi, Bahram Ghorbani, 2025-02-10 *Hydrogen Production Transportation Storage and Utilization Theoretical and Practical Aspects* is a comprehensive introduction to the theoretical and practical aspects of hydrogen as an energy vector This book presents upstream midstream and downstream aspects and at each stage explains the concepts methods applications and economics to provide a broad understanding of hydrogen energy This book explains each of the key aspects of hydrogen energy in dedicated chapters guiding readers through the fundamentals of hydrogen as an energy vector to economic safety and environmental considerations Chapter 1 explores energy storage technologies highlighting hydrogen's role as a clean versatile energy carrier alongside electrochemical batteries and thermal energy storage Chapter 2 analyzes the methods for hydrogen production and provides a review of the fundamental technological and environmental aspects of

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Textbook of Chemical Technology Volume-II, 2nd Edition Pandey G.N.,2000-05 This book is a companion volume of A Textbook of Chemical Technology Volume I written by the same author The two books cover the complete syllabi of Chemical Engineering and Chemical Technology programmes leading to the B Tech degree The book explains the basic principles of chemical engineering and operating conditions of chemical plants in India It discusses all major organic chemical industries including petroleum technology petro chemicals polymer science pulp and paper technology It also deals with pesticides coal and coal chemicals and the pharmaceutical industry Keeping the importance of environmental protection and prevention and control of hazards in mind a few chapters on planned industrial development environmental impact assessment and prevention of hazards in chemical industries have also been included This book will also serve as a reference for practicing engineers and technologists

Chemical Technology F. A. Henglein,2013-09-11 Chemical Technology is based on lectures the author gave at the Technische Hochschule of Karlsruhe and at the University of Freiburg Part 1 of this book deals with chemical technology and describes subjects dealing with apparatus unit operations and chemical economics The text reviews industrial chemical reactions raw materials preparation for reaction thermal and catalytic processes and a history of chemical technology This part also addresses transportation storage of raw materials and the design and construction of a chemical factory Part 2 concerns special chemical technology including topics such as raw material upgrading processing of products in the chemical industry and unit processes application toward consumer goods production This part reviews materials sourcing from animals minerals and vegetables such as processing of products from living organisms the recovery of sugar starch and other carbohydrates The book also reviews products of the chemical industry including low molecular weight consumer goods detergents aromas explosives plastics elastomers synthetic leather

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