

# Free epub Reactor design nptel Copy

Chemical Reaction Technology Dynamic  
Simulation of Sodium Cooled Fast Reactors  
Engineering Catalysis Inorganic Pollutants in  
Water Power Electronics for Electric  
Vehicles and Energy Storage Composite  
Materials for Industry, Electronics, and the  
Environment CMOSVLSI  
1,2,3...

# **Chemical Reaction Technology**

## **2015-05-19**

the book discusses the sciences of operations converting raw materials into desired products on an industrial scale by applying chemical transformations and other industrial technologies basics of chemical technology combining chemistry physical transport unit operations and chemical reactors are thoroughly prepared for an easy understanding

# ***Dynamic Simulation of Sodium Cooled Fast Reactors***

## **2022-11-18**

this book provides the basis of simulating a nuclear plant in understanding the knowledge of how such simulations help in assuring the safety of the plants thereby protecting the public from accidents it provides the reader with an in depth knowledge about modeling the thermal and flow processes in a fast reactor and gives an idea about the different numerical solution methods the text highlights the application of the simulation to typical sodium cooled fast reactor the book discusses mathematical modeling of the heat transfer process in a fast reactor cooled by sodium compares different numerical techniques and brings out the best one for the solution of the models provides a methodology of validation based on experiments examines modeling and simulation aspects necessary for

the safe design of a fast reactor emphasizes plant dynamics aspects which is important for relating the interaction between the components in the heat transport systems discusses the application of the models to the design of a sodium cooled fast reactor it will serve as an ideal reference text for senior undergraduate graduate students and academic researchers in the fields of nuclear engineering mechanical engineering and power cycle engineering

## ***Engineering Catalysis*** **2013-06-26**

with well over 90 of all processes in the industrial chemical production being of catalytic nature catalysis is a mature though ever interesting topic the idea of this book is to tackle various aspects of heterogeneous catalysis from the engineering point of view and go all the way from engineering of catalysis catalyst preparation characterization reaction kinetics mass transfer to catalytic reactors and the implementation of catalysts in chemical technology aimed for graduate students it is also a useful resource for professionals coming from the more academic side

## **Inorganic Pollutants in Water** **2020-03-03**

inorganic pollutants in water provides a clear

understanding of inorganic pollutants and the challenges they cause in aquatic environments the book explores the point of source how they enter water the effects they have and their eventual detection and removal through a series of case studies the authors explore the success of the detection and removal techniques they have developed users will find this to be a single platform of information on inorganic pollutants that is ideal for researchers engineers and technologists working in the fields of environmental science environmental engineering and chemical engineering sustainability through this text the authors introduce new researchers to the problem of inorganic contaminants in water while also presenting the current state of the art in terms of research and technologies to tackle this problem presents existing solutions to pollution problems along with their challenges includes case studies that detail success stories challenges and the implementation of these tools provides solutions that are both economically and ecologically sustainable

**???????? 1977**

this text will help readers to gain knowledge about designing power electronic converters and their control for electric vehicles it discusses the ways in which power from electric vehicle batteries is transferred to an electric motor the technology used for charging electric vehicle batteries and energy storage the text covers case studies and real

life examples related to electric vehicles the book discusses the latest advances and developments in the field of electric vehicles examines the challenges associated with the integration of renewable energy sources with electric vehicles highlights basic understanding of the charging infrastructure for electric vehicles covers concepts including the reliability of power converters in electric vehicles and battery management systems this book discusses the challenges emerging technologies and recent development of power electronics for electric vehicles it will serve as an ideal reference text for graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering environmental engineering automotive engineering and computer science

## **Power Electronics for Electric Vehicles and Energy Storage**

**2023-05-16**

this new volume focuses on different aspects of composite systems that are associated with research and development helping to bridge the gap between classical analysis and modern real life applications the chapters look at the experimental and theoretical aspects of composite materials regarding preparation processing design properties and practical implications it also presents recent advancements research and development prospects of advanced composite materials that











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