

Fischer Tropsch Technology

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fischer tropsch technology is a unique book for its state of the art approach to fischer tropsch ft technology this book provides an explanation of the basic principles and terminology that are required to understand the application of ft technology it also contains comprehensive references to patents and previous publications as the first publication to focus on theory and application it is a contemporary reference source for students studying chemistry and chemical engineering researchers and engineers active in the development of ft technology will also find this book an invaluable source of information is the first publication to cover the theory and application for modern fischer tropsch technology contains comprehensive knowledge on all aspects relevant to the application of fischer tropsch technology no other publication looks at past present and future applications

as the cleanest source of fossil energy with the most advantageous co₂ footprint natural gas continues to increase its share in the global energy market this book provides state of the art contributions in the area of gas processing special emphasis is given to liquified natural gas lng the book also covers the following gas processing applications in parallel sessions natural gas processing and treatment gas to power and water gas to liquid gtl gas to petrochemicals including olefins ammonia and methanol provides a state of the art review of gas processing technologies covers design operating tools and methodologies includes case studies and practical applications

this book presents an overview of current renewable energy sources challenges and future trends drawing from their longtime expertise and deep knowledge of the field the authors present a critic and well structured perspective on sustainable power sources and technologies including solar

wind hydrogen and nuclear both in large and small scale using accessible language they provide rigorous technological reviews and analyze the main issues of practical usage the book addresses current questions in this area such as is there enough biomass to make a difference in energy needs should biomass be used in energy generation how mature is battery technology will it finally become cost effective and will it make a significant difference this next decade how big a role will small and modular nuclear power generation play in the coming decades what will be the influence of national tax policies no prior technical knowledge is assumed of the reader it is therefore ideal for professionals and students in all areas of energy and power systems as well as those involved in energy planning management and policy presents a realistic and clear overview of the key sustainable energy technologies that will play important roles in the world's energy mix and their impact on the current power infrastructure discusses key societal and economic topics related to the implementation of sustainable energy sources in a straightforward way covers a broad variety of sustainable and renewable energy sources including hydrogen and bioenergy it also explores key issues on small modular nuclear facilities advances in battery technologies grid integration off grid communities and the most recent topics in energy economics and policy

coal production and processing technology provides uniquely comprehensive coverage of the latest coal technologies used in everything from mining to greenhouse gas mitigation featuring contributions from experts in industry and academia this book discusses coal geology characterization beneficiation combustion coking gasification and liquefaction

this book is a thoroughly up to date treatment of all the available technologies for biomass conversion each chapter looks at the viability and implementation of each technology with examples of existing equipment and plants in addition the text addresses the economics of biomass processing the book could also be used as a supplementary text for senior undergraduate courses on biomass processing

power-to-gas is the subject of intense and often contentious current discussions within industry research politics as well as the overall society these discussions primarily revolve around the practical and technical feasibility of power-to-gas processes and applications their economic viability the respective environmental benefits the contribution to climate protection as well as the social acceptability thus the primary aim of this book is to provide a comprehensive overview of various aspects diverse considerations and different perspectives regarding the future role and utilization of power-to-gas pathways on a global scale this encompasses the challenge of sourcing necessary feedstock options their conversion into different products and product groups exploring the possibilities of using these electricity-based fuels hydrocarbons in various markets and establishing suitable framework conditions for viable and sustainable markets in the years to come these objectives are achieved through a collection of papers contributed by experts actively engaged in various fields related to power-to-gas

selected peer reviewed papers from the second international conference on advances in materials and manufacturing processes icamm 2011 december 16-18 2011 guilin china

how can we use our carbon-based resources in the most responsible manner how can we most efficiently transform natural gas coal or biomass into diesel jet fuel or gasoline to drive our machines the big questions today are energy-related and the Fischer-Tropsch process provides industrially tested solutions this book offers a comprehensive and up to date overview of the Fischer-Tropsch process from the basic science and engineering to commercial issues it covers industrial economic environmental and fundamental aspects with a specific focus on green concepts such as sustainability process improvement waste reduction and environmental care the result is a practical reference for researchers engineers and financial analysts working in the energy sector who are interested in carbon conversion fuel processing or synthetic fuel

technologies it is also an ideal introductory book on the fischer tropsch process for graduate courses in chemistry and chemical engineering

good no highlights no markup all pages are intact slight shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

how much can technology contribute to securing adequate and affordable energy supplies and lower co2 emissions what energy technologies hold the most promise how long will it take at their 2005 summit in gleneagles g 8 leaders confronted these questions and called upon the international energy agency to provide advice on scenarios and strategies for a clean and secure energy future this publication demonstrates how energy technologies can make a difference in a series of global scenarios to 2050 it reviews in detail the status and prospects of key energy technologies in electricity generation buildings industry and transport it assesses ways the world can enhance energy security and contain growth in co2 emissions by using a portfolio of current and emerging technologies major strategic elements of a successful portfolio are energy efficiency co2 capture and storage renewables and nuclear power it provides technology and policy insights to help policy makers craft sustainable solutions

section headings and selected papers i plenary lectures metallocene catalysts for olefin polymerization w kaminsky advances in deep desulfurization h tops oslash e et al new horizons for the use of porous materials as catalysts m e davis new direction of research for industrial catalysis an example of mitsubishi chemical corporation t onoda synthetic or reformulated fuels a challenge for catalysis p chaumette et al ii oral presentations new acetyls technologies from bp chemicals m j howard et al ammoxidation of ethane to acetonitrile over co beta zeolite y li j n armor designing heterogeneous oxidation catalysts g j hutchings et al the chiyoda uop acetica trade process a novel acetic acid technology n yoneda et al two phase catalytic oxidation by macromolecule metal complexes e karakhanov et al recent advance in zeolite based catalytic process in people s republic of china z gao re

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