

Fischer Tropsch Technology

Powerfuels Biomass Processing Technologies Sustainable Power Technologies and Infrastructure Coal Production and Processing Technology Materials Processing Technology, ICAMMP2011 Fischer-Tropsch Technology Hydrocarbon Biorefinery Fossil Energy Update The Biofuels Handbook Proceedings of the 1st Annual Gas Processing Symposium Coal Conversion Technology Oil & Gas Science and Technology Handbook of Synfuels Technology Technology Characterizations Large Chemical Plants--New Technologies and Varying Feedstocks CAPPRI Trends in Petrochemical Technology Asian Natural Gas--new Markets and Distribution Methods World Energy Outlook Transactions of the American Association of Cost Engineers Nils Bullerdiek Vladimir Strezov Galen J. Suppes M.R. Riazi Xianghua Liu André Steynberg Sunil Kumar Maity James G. Speight Hassan E. Alfadala Arnold H. Pelofsky Robert Allen Meyers European Federation of Chemical Engineering Arthur M. Brownstein Donald L. Klass American Association of Cost Engineers. Meeting

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powerfuels are 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 x 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 x pathways on a global scale this encompasses the challenge of sourcing necessary educts 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 x

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 features provides a concise overview of all currently available biomass processing technologies includes relatively recent technologies such as biochar contains numerous industry examples and case studies covers the science and technology behind biomass processing as well as the economics including the effect of carbon taxation

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 gasification and liquefaction

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

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

sustainable production of hydrocarbon biofuels from biomass fuels that are fully compatible with existing internal combustion engines will allow the global transport economy to transition to a sustainable energy source without the need for capital intensive new infrastructures hydrocarbon biorefinery sustainable processing of biomass for hydrocarbon biofuels presents a comprehensive and easy to understand consolidation of existing knowledge for the production of hydrocarbon biofuels from biomass three major areas for the conversion of biomass to hydrocarbon biofuels are addressed i chemical and thermochemical conversion processes ii biological and biochemical conversion processes and iii conversion processes of biomass derived compounds additionally the book includes process design life cycle analysis of various processes reaction engineering catalysts process conditions and process concepts and is supported with detailed case studies the economic viability of each process is specifically addressed to provide a clear guide for the economic development of future hydrocarbon biofuels hydrocarbon biorefinery sustainable processing of biomass for hydrocarbon biofuels offers an all in one resource for researchers graduate students and industry professionals working in the area of bioenergy and will be of interest to energy engineers chemical engineers bioengineers chemists agricultural researchers

and mechanical engineers furthermore this book provides structured foundational content on biorefineries for undergraduate and graduate students presents fundamental concepts and processes of hydrocarbon biofuel production covering chemical biological and biomass derived conversion processes synthesizes the state of the art research and commercial initiatives of this emerging concept into stand alone chapters serving as a structured resource for researchers and practitioners emphasizes the process design and economic feasibility of each process using life cycle assessments to support commercial development

petroleum based fuels are well established products that have served industry and consumers for more than one hundred years however petroleum once considered inexhaustible is now being depleted at a rapid rate as the amount of available petroleum decreases the need for alternative technologies to produce liquid fuels that could potentially help prolong the liquid fuels culture and mitigate the forthcoming effects of the shortage of transportation fuels is being sought the dynamics are now coming into place for the establishment of a synthetic fuels industry the processes for recovery of raw materials and processing options have to change to increase the efficiency of oil production and it is up to various levels of government not only to promote the establishment of such an industry but to recognise the need for available and variable technology this timely handbook is written to assist the reader in understanding the options that available for the production of synthetic fuel from biological sources each chapter contains tables of the chemical and physical properties of the fuels and fuel sources it is essential that the properties of such materials be presented in order to assist the researcher to understand the nature of the feedstocks as well as the nature of the products if a product cannot be employed for its hope for use it is not a desirable product and must be changed accordingly such plans can only be made when the properties of the original product are understood the fuels considered include conventional and unconventional fuel sources the production and properties of fuels from biomass crops wood domestic and industrial waste and landfill gas

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

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