



Synthetic Fuels Processing

Ronald F. Probst, R. Edwin Hicks



Synthetic Fuels Processing:

Gasification for Synthetic Fuel Production R Luque, J Speight, 2014-08-29 Gasification involves the conversion of carbon sources without combustion to syngas which can be used as a fuel itself or further processed to synthetic fuels The technology provides a potentially more efficient means of energy generation than direct combustion This book provides an overview of gasification science and engineering and the production of synthetic fuels by gasification from a variety of feedstocks Part one introduces gasification reviewing the scientific basis of the process and gasification engineering Part two then addresses gasification and synthetic fuel production processes Finally chapters in part three outline the different applications of gasification with chapters on the conversion of different types of feedstock Examines the design of gasifiers the preparation of feedstocks and the economic environmental and policy issues related to gasification Reviews gasification processes for liquid fuel production Outlines the different applications of gasification technology

Water in Synthetic Fuel Production Ronald F. Probst, Harris Gold, 1978 In a period when easily extractable sources of relatively clean energy are dwindling worldwide and becoming increasingly expensive the development of new energy sources compatible with society's existing technology has become both an urgent national priority and an increasingly competitive commercial venture One promising source is the manufacture of synthetic fuels from coal and oil shale A major constraint is that the processes involved require considerable amounts of water a once free commodity that is itself becoming increasingly scarce and expensive in many areas Water in Synthetic Fuel Production explores both the promise and the constraints that are involved in the large scale synthesis of such fuels The authors summarize the problem and the intent of their book as follows Plants to manufacture synthetic fuels from coal and oil shale require large quantities of fresh water and produce large quantities of dirty water In the United States this poses a problem much of the easily mined coal and almost all of the high grade oil shale are in the arid West and local and temporal water shortages sometimes occur where coal supplies are located in the East In all regions the discharge of contaminated water is constrained by environmental considerations In this book we have endeavored to present the practically available technology that can be incorporated in synthetic fuel plants to minimize water consumption and pollution The book is intended to be a guide to understand the role water plays in synthetic fuel production and includes the basic concepts underlying water usage and water treatment in this context The book is directed to a wide audience including those responsible for planning energy development those involved with the engineering and design of synthetic fuel plants and students and others who desire a background in synthetic fuel production The book is formally self contained and all the material encompassing the disciplines of chemical mechanical civil environmental and mining engineering should be accessible to anyone with an undergraduate degree in engineering or the physical sciences The book describes the various methods of producing synthetic fuels and the technologies and costs involved in not using water For alternative economic constraints and different levels of water availability the technologies involved in minimizing

the need for water and in reusing and recycling water are applied to the manufacture of different synthetic fuels For a given level of fuel production the book demonstrates how to calculate the water consumption and the residual solid wastes in various regions of the country The authors conclude that applying the criteria of water availability alone a relatively high level of synthetic fuel production can be supported in the principal coal and shale regions of the United States excepting only the most arid areas and those where water is already largely allocated

Synthetic Fuels Handbook James Speight,2008-06-22 Capitalize on the Vast Potential of Alternative Energy Sources Such as Fuel Cells and Biofuels *Synthetic Fuels Handbook* is a comprehensive guide to the benefits and trade offs of numerous alternative fuels presenting expert analyses of the different properties processes and performance characteristics of each fuel It discusses the concept systems and technology involved in the production of fuels on both industrial and individual scales Written by internationally renowned fuels expert James G Speight this vital resource describes the production and properties of fuels from natural gas and natural gas hydrates tar sand bitumen coal oil shale synthesis gas crops wood sources biomass industrial and domestic waste landfill gas and much more Using both U S and SI units *Synthetic Fuels Handbook* features Information on conventional and nonconventional fuel sources Discussion of the production of alternative fuels on both industrial and individual scales Analyses of properties and uses of gaseous liquid and solid fuels from different sources Comparison of properties of alternative fuels with petroleum based fuels Discover All the Benefits and Trade Offs of Synthetic Fuels Fuel sources conventional and nonconventional Natural gas and natural gas hydrates Petroleum and heavy oil Tar sand bitumen Coal Oil shale Synthesis gas Crops Wood sources Biomass Industrial and domestic waste Landfill gas Comparison of the properties and uses of gaseous fuels from different sources Comparison of the properties and uses of liquid fuels from different sources Comparison of the properties and uses of solid fuels from different sources [Synthetic Fuels Processing](#) Arnold H. Pelofsky,1977 [Synthetic Fuels Development](#) United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications,1981 **Energy Conservation Update** ,1978 **Synthetic Fuels in California** ,1980 *Synthetic Fuels* United States. Congress. Senate. Committee on the Budget. Subcommittee on Synthetic Fuels,1979 **Fossil Energy Update** ,1978 **Production of Synthetic Fuels Using Syngas from a Steam Hydrogasification and Reforming Process** Arun S. K. Raju,2008 **Energy Abstracts for Policy Analysis** ,1978 **Energy** ,1977 *Production and Utilisation of Synthetic Fuels--an Energy Economics Study* F. R. Benn,1981 **Synthetic Fuels Data Handbook** Gary L. Baughman,1978 *Emissions form synthetic fuels production facilities* J. D. Colley,Wayne A. Gathman,Michael Leonard Owen,1977 **Synthetic Fuels** Ronald F. Probst, R. Edwin Hicks,2013-04-15 This book the outgrowth of a graduate course the authors taught at the Massachusetts Institute of Technology was designed to fill an urgent need the training of engineers in the production of synthetic fuels to replace dwindling supplies of natural ones The authors presented synthetic fuels as a unified engineering subject while recognizing

that many of its principles are well understood aspects of various engineering fields The presentation begins with a review of chemical and physical fundamentals and conversion fundamentals and proceeds to coal gasification and gas upgrading Subsequent chapters examine liquids and clean solids produced from coal liquids obtained from oil shale and tar sands biomass conversion and environmental economic and related aspects of synthetic fuel use The text is directed toward beginning graduate students and advanced undergraduates in chemical and mechanical engineering but should also appeal to students from other disciplines including environmental mining petroleum and industrial engineering as well as chemistry It also serves as a reference and guide for professionals

Findings and Recommendations of the Advisory Panel on Synthetic Fuels United States. Congress. House. Committee on Science and Technology. Advisory Panel on Synthetic Fuels, 1981

World Production of Synthetic Fuels David Isaak, Sharon L. Hoffman, 1983

Energy Research Abstracts, 1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

Synfuels from Coal and the National Synfuels Production Program, 1981

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