



Renewables supply power to the whole process

Through electrolysis, the oxygen and the hydrogen that make up water are separated



CO₂ from the Petronor refinery is captured

Using only the hydrogen and the captured CO₂, synthetic fuels are produced



Carbon-neutral synthetic fuels are obtained that can be used in existing engines of cars, trucks, and airplanes.



Synthetic fuels
zero net emissions



Synthetic Fuels

R Luque, J Speight



Synthetic Fuels:

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

Fossil Energy Update, 1980 *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

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

Findings and

Recommendations of the Advisory Panel on Synthetic Fuels United States. Congress. House. Committee on Science and Technology. Advisory Panel on Synthetic Fuels,1980 *Energy Abstracts for Policy Analysis* ,1978 Oil Shales and Tar Sands United States. Department of Energy,1977 *Energy Conservation Update* ,1978 **Recommendations for a Synthetic Fuels Commercialization Program** United States. Interagency Task Force on Synthetic Fuels Commercialization,1975 **Loan Guarantees for Commercial-size Synthetic Fuels Demonstration Plants: Appendices** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research, Development, and Demonstration (Fossil Fuels),1975 **Fossil and synthetic fuels miscellaneous** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Fossil and Synthetic Fuels,1981 **The Production of Liquid Fuels from Oil Shale and Coal in Australia** R. E. Thwaites,1923 **Synthetic Fuels from Coal** United States. Interagency Task Force on Synthetic Fuels from Coal,1974 This report provides a data base for Project Independence Blueprint in the area of synthetic fuels from coal This area involves both industrial practice and a relatively large amount of advanced coal conversion technology much of which is on an advanced pilot plant level It must be emphasized that the report simply identifies representative resources financial raw materials manpower needed in case a decision is made to achieve given synthetic fuel production rates The report does not suggest or imply that the resources identified herein either financial in terms of capital or raw resources in terms of the needed coal mine capacities are currently available By simply identifying the critical resources this report provides a needed data base for decision in the area of synthetic fuels *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 Loan Guarantees for Commercial-size Synthetic Fuels Demonstration Plants United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research, Development, and Demonstration,1976 *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 The Unfulfilled Promise of Synthetic Fuels William Green,Ernest J. Yanarella,1987-08-26 The dismantling of the Synthetic Fuels Corporation and the shelving of scores of synfuel plant

proposals have triggered a need for a searching inquiry into the reasons why the initial promise of synfuels has not been realized In this volume a distinguished group of political scientists policy analysts and energy planners apply the critical tools of economic scientific and political analysis in an attempt to illuminate why the dream of synthetic fuels development has ended at least temporarily The essays collected here grapple with a variety of problems surrounding the rise and demise of synthetic fuels development in the 1970s Hydrogenation of Organic Substances, Including Fats and Fuels Carleton Ellis,1919 *Prospects for Synthetic Fuels in the United States* John M. Deutch,1982 **Loan Guarantees for Commercial-size Synthetic Fuels Demonstration Plants: Witnesses** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research, Development, and Demonstration (Fossil Fuels),1975

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