

Synthetic Fuel Technology Development in the United States

*A Retrospective
Assessment*

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Synthetic Fuel Technology Development In The United States A Retrospective Assessment

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Synthetic Fuel Technology Development In The United States A Retrospective Assessment:

Synthetic Fuel Technology Development in the United States Michael Crow, 1988-11-17 Direct coal liquefaction a synthetic liquid fuel process is one of the major developmental alternatives for meeting the anticipated fuel demands for the twenty first century This work provides a retrospective assessment of past attempts in this century to develop synthetic liquid fuel and applies the findings to produce reliable and pertinent data for the future Retrospective technology assessment a recent methodological invention is used by the authors to analyze the past synthetic liquid fuel programs and the reasons for their failures Bringing to bear four different perspectives economic technological policy and historical the authors draw broad conclusions that will help guide the next development effort in the United States Belief-based Energy Technology Development in the United States Chi-Jen Yang, 2009 This book is a comparative study of two energy policies that illustrates how and why technical fixes in energy policy failed in the United States In the post WWII era the U S government forcefully and consistently endorsed the development of civilian nuclear power It adopted policies to establish the competitiveness of civilian nuclear power far beyond what would have occurred under free market conditions Even though synthetic fuel was characterized by a similar level of economic potential and technical feasibility the policy approach toward synthetic fuel was sporadic and indeterminate The contrast between the unfaltering faith in nuclear power and the indeterminate attitude toward synthetic fuel raises many important questions The answers to these questions reveal provocative yet compelling insights into the policy making process The author argues that these diverging paths of development can be explained by exploring the dominant government ideology of the time or ideology of the state as the sociology literature describes it The forceful support for nuclear power was a result of a government preoccupied with fighting the Cold War The U S national security planners intentionally idealized and deified nuclear power to serve its Cold War psychological strategy These psychological maneuverings attached important symbolic meaning to nuclear power This symbolism in turn explains the society wide enthusiasm The fabricated myth of the Atomic Age became a self fulfilling prophecy and ushered in a bandwagon market On the other hand a confused indeterminate and relatively powerless welfare state stood behind synthetic fuel The different ideologies of the state explain the government's different attitudes toward nuclear and synfuel endeavors The overarching discovery is a mode of belief based decision making in long term energy planning This discovery goes against the prevalent assumption of rational choice in social sciences The author argues that rational choice assumption is inapplicable because of the extreme long term nature of energy planning It is not usually possible to predict the sociopolitical and economic conditions in the distant future Rational decisions require supporting information which often includes impossible long term foresights One cannot rationally choose between one unknown and another unknown Pivotal decisions in long term energy planning must inevitably be belief based and beliefs are subject to political manipulation and distortions by social mechanisms Understanding these peculiar but pervasive characteristics of energy business bears important lessons

for today's decision making about energy technologies and the stakes if anything are even higher than before. Energy policy communities, historians of the Cold War American history and technology, and sociologists would find this book an invaluable resource.

Greener Fischer-Tropsch Processes Peter M. Maitlis, Arno de Klerk, 2013-03-25. Greener Fischer-Tropsch Processes: 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.

Fischer-Tropsch Synthesis, Catalysts, and Catalysis Burtron H. Davis, Mario L. Occelli, 2016-04-06. This book is based on a symposium held during the 248th American Chemical Society meeting that focused on use of the Fischer-Tropsch process in producing synthetic fuels. Its contents reflect the four dominant subjects of the meeting: catalyst preparation and activation, catalyst activity and reaction mechanisms, catalyst characterization, and related reactions and topics concerning commercializing the Fischer-Tropsch process. It covers recent developments related to renewable resources and green energy and provides a glimpse of the commercial potential of the Fischer-Tropsch process in synthetic fuel production.

The End of Energy Michael J. Graetz, 2011-03-04. Forty years of energy incompetence, villains, failures of leadership, and missed opportunities. Americans take for granted that when we flip a switch, the light will go on; when we turn up the thermostat, the room will get warm; and when we pull up to the pump, gas will be plentiful and relatively cheap. In *The End of Energy*, Michael Graetz shows us that we have been living an energy delusion for forty years. Until the 1970s, we produced domestically all the oil we needed to run our power plants, heat our homes, and fuel our cars. Since then, we have had to import most of the oil we use, much of it from the Middle East. And we rely on an even dirtier fuel, coal, to produce half of our electricity. Graetz describes more than forty years of energy policy incompetence and argues that we must make better decisions for our energy future. Despite thousands of pages of energy legislation since the 1970s, passed by a Congress that tended to elevate narrow parochial interests over our national goals, Americans have never been asked to pay a price that reflects the real cost of the energy they consume. Until Americans face the facts about price, our energy incompetence will continue, and along with it, the unraveling of our environment, security, and independence.

Coal Production and Processing Technology M.R. Riazi, Rajender Gupta, 2015-11-05. *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 liquef **Energy** Joseph Russell Rudolph,1995 A road map for the novice researcher contemplating the broad field affected by and concerned with energy **Future Energy** Trevor Letcher,2013-11-12 As the demand for global energy increases fact based evaluations of alternative energy sources are needed in order to address the growing interest in how energy is produced provided and transported in sustainable ways Future Energy Second Edition provides scientists and decision makers with the knowledge they need to understand the relative importance and magnitude of various energy production methods in order to make the energy decisions needed for sustaining development and dealing with climate change The second edition of Future Energy looks at the present energy situation and extrapolates to future scenarios related to global warming and the increase of carbon dioxide and other greenhouse gases in the atmosphere This thoroughly revised and updated edition contains over 30 chapters on all aspects of future energy each chapter updated and expanded by expert scientists and engineers in their respective fields providing an unbiased and balanced view of the future of energy Provides readers with an up to date overview of available energy options both traditional and renewable as well as the necessary tools to make informed decisions regarding selection use and environmental impacts Covers a wide spectrum of future energy resources presented in a single book with chapters written by experts of the particular field Eleven new chapters including chapters on solar heating energy resources in developing nations and frontiers in oil and gas Arctic drilling and unconventional oil and gas sources thorium in nuclear fission ethanol and other options for future transport fuel fracking smart grids new batteries environmental issues and the energy options for China **A Cultural History of Chemistry in the Modern Age** Peter J. T. Morris,2023-12-14 A Cultural History of Chemistry in the Modern Age covers the period from 1914 to the present The impact of chemistry and the chemical industry on science war society and the economy has made this era the Chemical Age Having prospered in the West chemical science spread across the globe and slowly became more diversified in terms of its ethnic and gendered mix After flourishing for sixty years the chemical industry was impacted by the Oil Crisis of the 1970s and became almost invisible in the West While the industry has clearly delivered many benefits to society such as new materials and better drugs it has been excoriated by critics for its impact on the environment The 6 volume set of the Cultural History of Chemistry presents the first comprehensive history from the Bronze Age to today covering all forms and aspects of chemistry and its ever changing social context The themes covered in each volume are theory and concepts practice and experiment laboratories and technology culture and science society and environment trade and industry learning and institutions art and representation Peter J T Morris is Honorary Research Associate at the Science Museum London and at University College London UK Volume 6 in the Cultural History of Chemistry set General Editors Peter J T Morris University College London UK and Alan Rocke Case Western Reserve University USA **New Technical Books** New York Public Library,1989 **Encyclopedia of Chemical**

Technology: Fuel resources to heat stabilizers ,1991 **The Journal of Energy and Development** ,1990 Scientific and Technical Aerospace Reports ,1995 **Encyclopedia of Chemical Technology: Fuel resources to heat stabilizers**

Raymond Eller Kirk,1991 Contains a library of information for the chemical industry The 4th edition has undergone a complete revision with the inclusion of many new subjects which reflect the growth in chemical technology through the 1990s The book includes expanded coverage of biotechnology and materials science *Technology and Culture* ,1990

Energy Abstracts for Policy Analysis ,1989 Bibliographic Guide to Technology New York Public Library. Research Libraries,1978 **Environmental Policy** Donald T. Wells,1996 One doesn't need to look far to see evidence of environmental abuse The message is clear Environmental protection is not a choice it is a necessity We must rectify misuses of the past atone for the mistakes of the present and ensure the well being of future generations In this timely volume Donald T Wells focuses on the sensitive issues surrounding environmental policy Exploring the ecological basis of life the author helps readers to separate fact from fiction to correctly interpret these facts and to determine their significance for human actions In addition Wells searches for ways to restore and sustain environmental quality *Judicial Review and Public Policy in Comparative Perspective* Donald Wilson Jackson,Chester Neal Tate,1990 *Chemical Energy from Natural and Synthetic Gas* Yatish T. Shah,2017-03-16 Commercial development of energy from renewables and nuclear is critical to long term industry and environmental goals However it will take time for them to economically compete with existing fossil fuel energy resources and their infrastructures Gas fuels play an important role during and beyond this transition away from fossil fuel dominance to a balanced approach to fossil nuclear and renewable energies Chemical Energy from Natural and Synthetic Gas illustrates this point by examining the many roles of natural and synthetic gas in the energy and fuel industry addressing it as both a transition and end game fuel The book describes various types of gaseous fuels and how they are recovered purified and converted to liquid fuels and electricity generation and used for other static and mobile applications It emphasizes methane syngas and hydrogen as fuels although other volatile hydrocarbons are considered It also covers storage and transportation infrastructure for natural gas and hydrogen and methods and processes for cleaning and reforming synthetic gas The book also deals applications such as the use of natural gas in power production in power plants engines turbines and vehicle needs Presents a unified and collective look at gas in the energy and fuel industry addressing it as both a transition and end game fuel Emphasizes methane syngas and hydrogen as fuels Covers gas storage and transport infrastructure Discusses thermal gasification gas reforming processing purification and upgrading Describes biogas and bio hydrogen production Deals with the use of natural gas in power production in power plants engines turbines and vehicle needs

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