



Simulation Of Coal Gasification Process Using Aspen Plus

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Simulation Of Coal Gasification Process Using Aspen Plus:

Indirect Coal Gasification Using Aspen-Plus® Model Syed Ali Ammar Taqvi, Fahim Uddin, Inayatullah Memon, 2016-01-22 In view of limited liquid fuels in terms of crude oil reserves and to reduce the use of constantly and rapidly diminishing natural gas reserves researchers are attracted towards Fisher Tropsch reaction Aspen Plus r has become reliable acquainted and recognized processes modeling software extensively in practice for coal and biomass gasification processes It contains different physical property packages that are useful for solid handling Aspen Plus r model has been proposed to develop a better understanding of the process for geometric analysis of gasifier This simulation presents an alternate technology for conventional coal gasification to improve the performance of process by varying geometry of gasifier The Purpose of this study is entirely focus on the production of synthesis gas from coal through a process of indirect gasification and using only steam as the gasifying medium The book serves as reference material for students engineers and scientists working in the area of syngas production and coal gasification *Advances in Energy Resources and Environmental Engineering* Abdelfatah Abomohra, Razif Harun, Jia Wen, 2024-06-26 This book provides the recent advanced research results of environmental engineering and energy resources covering the main multidisciplinary research on waste treatment and recycling ecological environment protection energy strategy management etc The exploitation and extensive utilization of energy and resources result in negative impacts on the environment Therefore the use of energy and resources efficiently and eco friendly has become an urgent research direction in environmental engineering This book aims to promote scientific information exchange between scholars from universities research centers and high tech enterprises around the world which is beneficial to researchers and practitioners in the field of environmental engineering *Waste to Energy* S. Syngellakis, 2014-12-30 Waste to Energy deals with the very topical subject of converting the calorific content of waste material into useful forms of energy It complements and to a certain degree overlaps with its companion volume Biomass to Biofuels since a significant proportion of biomass converted to energy nowadays originates from various types of waste The material in the first more substantial part of the volume has been arranged according to the type of process for energy conversion Biochemical processes are described in six articles These relate to the production of methane by anaerobic digestion reactor conversion efficiencies investigations on ethanol production from biodegradable municipal solid waste through hydrolysis and fermentation hydrogen production from glucose through a hybrid anaerobic and photosynthetic process biodiesel production from used cooking oil through base catalyzed transesterification Conversions by thermochemical processes are discussed in the subsequent eleven articles of the volume These cover combustion the direct use of heat energy using the heat produced in thermal power stations for steam and ultimately electricity generation municipal solid waste and refuse derived fuel In another article computational fluid dynamics modelling is applied to assess the influence of process parameters and to perform optimization studies A group of articles deal with more complex

thermochemical processes involving combustion combined with pyrolysis and gasification Two articles focus on biofuels as feed for fuel cells In the last six articles the emphasis is on management and policy rather than technical issues *Chemical Looping Systems for Fossil Energy Conversions* Liang-Shih Fan,2011-02-14 This book presents the current carbonaceous fuel conversion technologies based on chemical looping concepts in the context of traditional or conventional technologies The key features of the chemical looping processes their ability to generate a sequestration ready CO₂ stream are thoroughly discussed Chapter 2 is devoted entirely to the performance of particles in chemical looping technology and covers the subjects of solid particle design synthesis properties and reactive characteristics The looping processes can be applied for combustion and or gasification of carbon based material such as coal natural gas petroleum coke and biomass directly or indirectly for steam syngas hydrogen chemicals electricity and liquid fuels production Details of the energy conversion efficiency and the economics of these looping processes for combustion and gasification applications in contrast to those of the conventional processes are given in Chapters 3 4 and 5 Finally Chapter 6 presents additional chemical looping applications that are potentially beneficial including those for H₂ storage and onboard H₂ production CO₂ capture in combustion flue gas power generation using fuel cell steam methane reforming tar sand digestion and chemicals and liquid fuel production A CD is appended to this book that contains the chemical looping simulation files and the simulation results based on the ASPEN Plus software for such reactors as gasifier reducer oxidizer and combustor and for such processes as conventional gasification processes Syngas Chemical Looping Process Calcium Looping Process and Carbonation Calcination Reaction CCR Process Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Waste Management and the Environment VI V. Popov,H. Itoh,C. A. Brebbia,2012 Waste management can be problematic Especially with the emphasis in many countries now being on sustainability there is a great need for more research on disposal methods While we have found ways to reduce the volume of waste that needs to be disposed questions remain about the environmental and safety aspects of certain recycled materials and the by products of waste management activities current technology improvements and regulatory and monitoring problems Featuring papers published at the Sixth International Conference on Waste Management and the Environment this book contains contributions on the topics such as Advanced Waste Treatment Technology Wastewater Treatment Resources Recovery Waste Incineration and Gasification Waste Pre Treatment Separation and Transformation Landfills Soil and Groundwater Clean up Public Awareness Air Pollution Control Hazardous Waste Waste Management Construction and Demolition Waste Costs Waste Reduction Reuse and Recycling Energy from Waste Electrical Waste Rare Metals Computer Modelling Methodologies and Practices Risk Assessment Nuclear Waste Environmental Economics Assessment Laws and Regulations Biological Treatments Agricultural Wastes **Green Approach to Alternative Fuel for a Sustainable Future** Maulin P. Shah,2023-05-14 Green Approach on Alternative Fuel for Sustainable Future addresses the advancement of biological and biochemical technologies in context

to alternative fuel synthesis This book emphasizes and discusses the technology involved and development on the status of alternative fuel production and related aspects including biofuel production The potential uses of waste material to turn them into wealth as alternative energy sources also been discussed The extended and detailed content of the book also covers the promising uses of microalgae treatment to produce biofuel By not being limited to the biological aspect the book also discusses and explores the perspective of green chemistry for energy production By adding policy and commercialization the book provides comprehensive information from lab to field with extensive illustrations case studies summary tables and up to date references Gives an overall overview on general and applied aspects on biofuels Provides scientific methodology for viable sustainable transition strategies for policy makers Outlines green technologies to face the environmental crisis and allow for the transformation into a sustainable future Provides data based information in context to advance and innovative technology Explore possibilities and limitation of expansion and commercialization of biofuels Offers accumulation of innovative approach to promoting sustainable development Includes cutting edge research concepts for biofuels production

Current Developments in Biotechnology and Bioengineering Sunil Kumar,Rakesh Kumar,Ashok Pandey,2019-01-03
 Current Developments in Biotechnology and Bioengineering Waste Treatment Processes for Energy Generation provides extensive research on the role of waste management processes technologies for energy generation The enormous increase of waste materials generated by human activity and its potentially harmful effects on the environment and public health have led to an increasing awareness of an urgent need to adopt scientific methods for the safe disposal of wastes This book outlines the basic knowledge processes and technologies for the generation of energy from waste and functions as an important reference for academics and practitioners at varying levels of interest and knowledge The book s content encompasses all issues for energy recovery from waste in a very clear and simple manner acting as a comprehensive resource for anyone seeking an understanding on the topic Outlines the latest technologies used for waste conversion into energy and facilitates project evaluation based on these technologies Summarizes the pros and cons of various processes Includes case studies and economic analysis Coal Abstracts ,1993 **Thermodynamic Analysis of Chemically Reactive Systems** American Society of Mechanical Engineers. Winter Annual Meeting,1988 **Energy Research Abstracts** ,1991 **Proceedings of the Summer Computer Simulation Conference** ,1982 *Chemical Engineering Progress* ,2008 *Paper* ,2001 Greenhouse Gas Control Technologies Edward S. Rubin,2005 Following the successful publication of the proceedings of 6th Green House Gas Control Technology conference GHGT 6 Elsevier is proud to publish the proceedings from the 7th conference held in Vancouver in September 2004 The Greenhouse Gas Control Technologies conference series has established itself as the foremost conference bringing together the international energy community providing a forum for the discussion of the latest advances in the field of greenhouse gas control technologies **Hydrogen Energy Progress VI** T. Nejat Veziroğlu,Nikola Getoff,Peter Weinzierl,1986 **ASME Technical Papers** ,2001

Advanced Research on Automation, Communication, Architectonics and Materials Helen Zhang, Gang Shen, David Jin, 2011-04-19 Selected peer reviewed papers from the 2011 International Conference on Automation Communication Architectonics and Materials ACAM 2011 June 18 19 2011 Wuhan China *Production of Synthetic Fuels Using Syngas from a Steam Hydrogasification and Reforming Process* Arun S. K. Raju, 2008 *Science in China*, 2007 *Analysis, Synthesis, and Design of Chemical Processes* Richard Turton, Joseph A. Shaeiwitz, Debangsu Bhattacharyya, Wallace B. Whiting, 2018-06-15 The Leading Integrated Chemical Process Design Guide With Extensive Coverage of Equipment Design and Other Key Topics More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Fifth Edition presents design as a creative process that integrates the big picture and small details and knows which to stress when and why Realistic from start to finish it moves readers beyond classroom exercises into open ended real world problem solving The authors introduce up to date integrated techniques ranging from finance to operations and new plant design to existing process optimization The fifth edition includes updated safety and ethics resources and economic factors indices as well as an extensive new section focused on process equipment design and performance covering equipment design for common unit operations such as fluid flow heat transfer separations reactors and more Conceptualization and analysis process diagrams configurations batch processing product design and analyzing existing processes Economic analysis estimating fixed capital investment and manufacturing costs measuring process profitability and more Synthesis and optimization process simulation thermodynamic models separation operations heat integration steady state and dynamic process simulators and process regulation Chemical equipment design and performance a full section of expanded and revamped coverage of designing process equipment and evaluating the performance of current equipment Advanced steady state simulation goals models solution strategies and sensitivity and optimization results Dynamic simulation goals development solution methods algorithms and solvers Societal impacts ethics professionalism health safety environmental issues and green engineering Interpersonal and communication skills working in teams communicating effectively and writing better reports This text draws on a combined 55 years of innovative instruction at West Virginia University WVU and the University of Nevada Reno It includes suggested curricula for one and two semester design courses case studies projects equipment cost data and extensive preliminary design information for jump starting more detailed analyses

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