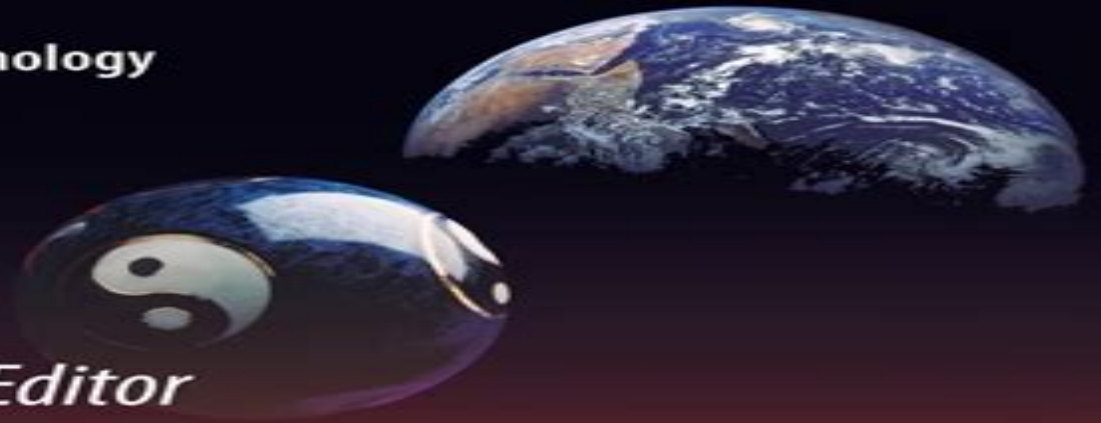


Green Energy and Technology



Luis Puigjaner *Editor*

Syngas from Waste Emerging Technologies

 Springer

Syngas From Waste Emerging Technologies Green Energy And Technology

**Narendra Kumar,Hukum Singh,Amit
Kumar**



Syngas From Waste Emerging Technologies Green Energy And Technology

Syngas from Waste Luis Puigjaner, 2011-07-15 Syngas from Waste presents the most recent concepts methods and techniques for the preliminary design of a promising emerging technology production of clean syngas from waste materials An in depth account is given of the steps necessary to achieve the optimum design and up to date tools are presented to support the designer s decision making tasks modelling simulation and optimization Numerous illustrations and tables are included to facilitate the reader s understanding as well as suggestions for further reading The text is complemented with practical examples and industrial applications ranging from clean power generation to complex combined heat and power systems and high purity hydrogen for use in fuel cells Syngas from Waste contains high quality contributions from leading experts in the field It is intended for academics at MSc or PhD level researchers and industry practitioners in syngas production and applications who are involved in the design retrofit design and evaluation activities of alternative scenarios It contains valuable teaching material for lecturers and provides industry professionals with the know how to evaluate and improve existing installations or even to design a new one

Syngas Rudy Myers, 2016 To reduce the dependence on dwindling crude oil reserves the rational design of heterogeneous catalysts for the selective conversion of syngas into valuable fuels and chemicals is considered a principal scientific and industrial target Syngas is an important intermediate for manufacturing clean fuels and chemicals which can be derived from a variety of carbonaceous resources such as coal natural gas shale gas municipal solid waste MSW or lignocellulosic biomass feedstocks through gasification or reforming technologies The use of biomass feedstock and its derivatives biomass derived syngas to produce renewable energy carbon neutral and clean fuels and chemicals is gaining increasing interests because these resources can supplement existing supplies of raw materials and have less net environmental impact This book provides recent research on the production emerging technologies and ecological impacts of syngas

Waste to Energy in the Age of the Circular Economy Asian Development Bank, 2020-11-01 This compendium features 18 projects that demonstrate the use of waste to energy technologies in the municipal agricultural and industrial sectors Lessons learned from these projects are discussed and provide insights on the challenges and opportunities of waste to energy projects The compendium also provides an overview of specific technologies including an assessment of their commercial maturity The compendium complements the Waste to Energy in the Age of the Circular Economy Best Practice Handbook Both resources aim to support the efforts of developing countries in Asia and the Pacific to deploy and scale up technologies relevant to the circular economy

Renewable Energy and Green Technology Narendra Kumar, Hukum Singh, Amit Kumar, 2021-12-09 Renewable Energy and Green Technology Principles and Practices is based on the present need to understand the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in global development Renewable energy is the best and cheapest source of energy as an alternate resource There is massive potential for renewable energy globally including in India The efficient utilization of renewable energy resources could minimize the impact of climate change globally Generally renewable energy is generated from essentially inexhaustible sources including wind power solar power geothermal energy tidal energy biomass energy and other sources Hence encouraging renewable energy use could save our tomorrow from the climate change perspective and in terms of sustainable food production This book promotes the exchange of ideas policy formulation and collective action to ensure a smooth transition to renewable energy It describes the technological interventions for reducing environmental and economic damage resulting from the use of conventional energy sources In this book the focus is on utilizing various renewable energy sources in diverse sectors It also elaborates the descriptive methodology of different renewable energies accompanied by figures and tables It provides information on biogas energy plants gasifier technologies and hydropower technologies among others along with their applications Further it delves into energy concepts and details significant advantages of the energy resources for sustaining the future world Lastly this book will provide instant access to comprehensive cutting edge knowledge making it possible for academicians and researchers to utilize this ever growing wealth of information Key features Emphasizes the understanding of the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in the era of global development Focuses on recent trends in renewable energy with principles and practices in relation to climate change Highlights advanced approaches for sustainable use of renewable energy sources Illustrates the methodology for various aspects of renewable energy with figures and charts Discusses the green technology usages of the agriculture and forestry sectors Provides comprehensive cutting edge information for policymakers in the field of renewable energy

New and Renewable Energy Technologies for Sustainable Development Naim Afgan, 2020-12-17 The International Conference on New and Renewable Energy Technologies for Sustainable Development held in Ponta Delgada Azores 2002 Portugal has provided technology specialists and hardware developers with the opportunity to discuss review and demonstrate the research directions the design methodologies and the production techniques leading to cost effective energy technologies for sustainable development This dialog provides the context for more detailed technical presentations and panel discussions on energy systems renewable resource exploitation and the engineering design and optimisation for minimum resource consumption The papers included in this volume are selected from those presented at the conference reflecting to present the state of the art developments in the field The selection of papers presented in this volume has enlightened various fields of scientific and economic development which should merge efforts in the understanding of the sustainable development concept and technological implications The book will be of particular interest to engineering practitioners product developers researchers and also economists political scientists and government administrators exploring the multifaceted relationship between renewable energy technologies and sustainable development Keynote lectures frame the technical and policy issues confronting the sustainable development movement and enrich the dialog between various segments of the community

Renewable Energy Technologies for Energy Efficient Sustainable Development Arindam Sinharoy, Piet N. L. Lens, 2022-01-03 The depletion of fossil fuel reserves and concerns for environmental degradation due to the fossil fuel burning have led the scientific community to look for alternative renewable energy sources Among the available renewable energy sources bioenergy derived from biomass and waste resources have great potential to not only prevent environmental pollution but also be a carbon neutral energy source In addition adaptation of this technology could streamline new green products alternative energy sources into real world applications and promote a circular economy towards zero waste approach This book tries to bridge the existing knowledge gap in the area of bioenergy resources The first two chapters provide introduction to the anaerobic digestion AD technologies and direct interspecies electron transfer in AD The next three chapters are on biomass pretreatment technologies for process improvement The sixth to eighth chapter discusses biogas and other by product production from specific wastes such from dairy food and agricultural solid waste The following two chapters focuses on the downstream processing of anaerobic digestate and on biochar production Integration of AD in biorefineries using bioelectrochemical systems syngas fermentation and electricity production are discussed in the next three chapters The final two chapters elaborates on life cycle assessment of AD based technologies

Advanced and Emerging Technologies for Resource Recovery from Wastes Laleh Nazari, Chunbao (Charles) Xu, Madhumita B. Ray, 2021-04-01 This book introduces advanced or emerging technologies for conversion of wastes into a variety of high value chemicals and materials Energy and resources can be recovered from various residential industrial and commercial wastes such as municipal wastewater and sludge e waste waste plastics and resins crop residues forestry residues and lignin Advanced waste to resource and energy technologies like pyrolysis hydrothermal liquefaction fractionation de polymerization gasification and carbonization are also introduced The book serves as an essential guide to dealing with various types of wastes and the methods of disposal recovery recycling and re use As such it is a valuable resource for a wide readership including graduate students academic researchers industrial researchers and practitioners in chemical engineering waste management waste to energy and resources conversion and biorefinery

Municipal Solid Waste Energy Conversion in Developing Countries Suani Teixeira Coelho, Alessandro Sanches Pereira, Shyamala K. Mani, Daniel Hugo Bouille, William H.L. Stafford, Marina Yesica Recalde, Atilio Armando Savino, 2019-10-16 Municipal Solid Waste Energy Conversion in Emerging Countries Technologies Best Practices Challenges and Policy presents contributions from authors from India Argentina Brazil Colombia Ecuador Mexico South Africa and China who come together to present the most reliable technologies for the energy conversion of municipal solid waste The book addresses existing economic and policy scenarios and possible pathways to increase energy access and reduce the negative impacts of inadequate disposal The book s authors discuss anaerobic digestion and other MSW conversion technologies such as incineration and gasification The environmental and social impacts of their introduction in small villages in emerging countries is also explored Due to its focus on local authors and its pragmatic approach this book is indispensable for bioenergy researchers and practitioners in emerging economies as well as researchers graduate students and professionals interested in developing waste to energy technology that can be implemented in those regions It is also particularly useful to professionals interested in energy policy and economics due to its assessment of policy and recommendations Explores the opportunities and challenges for municipal solid waste to energy technology implementation in emerging economies such as Brazil India South Africa and China Presents a detailed and updated overview of the commercial technologies available in these countries and their economic environmental and social aspects Includes case studies which highlight best practices and successful local experiences Examines current economics and policy barriers for these technologies

Municipal Solid Waste to Energy Conversion Processes Gary C. Young, 2010-11-29 MUNICIPAL SOLID WASTE TO ENERGY CONVERSION PROCESSES A TECHNICAL AND ECONOMIC REVIEW OF EMERGING WASTE DISPOSAL TECHNOLOGIES Intended for a wide audience ranging from engineers and academics to decision makers in both the public and private sectors Municipal Solid Waste to Energy Conversion Processes Economic Technical and Renewable Comparisons reviews the current state of the solid waste disposal industry It details how the proven plasma gasification technology can be used to manage Municipal Solid Waste MSW and to generate energy and revenues for local communities in an environmentally safe manner with essentially no wastes Beginning with an introduction to pyrolysis gasification and combustion technologies the book provides many case studies on various waste to energy WTE technologies and creates an economic and technical baseline from which all current and emerging WTE technologies could be compared and evaluated Topics include Pyrolysis gasification technology the most suitable and economically viable approach for the management of wastes Combustion technology Other renewable energy resources including wind and hydroelectric energy Plasma economics Cash flows as a revenue source for waste solids to energy management Plant operations with an independent case study of Eco Valley plant in Utashinai Japan Extensive case studies of garbage to liquid fuels wastes to electricity and wastes to power ethanol plants illustrate how currently generated MSW and past wastes in landfills can be processed with proven plasma gasification technology to eliminate air and water pollution from landfills

Gasification of Waste Materials Simona Ciuta, Demetra Tsiamis, Marco J. Castaldi, 2017-10-24 Gasification of Waste Materials Technologies for Generating Energy Gas and Chemicals from MSW Biomass Non recycled Plastics Sludges and Wet Solid Wastes explores the most recent gasification technologies developing worldwide to convert waste solids to energy and synthesis gas and chemical products The authors examine the thermodynamic aspects accepted reaction mechanisms and kinetic constraints of using municipal solid waste MSW biomass non recycled plastics NRP sludges and wet solid wastes as feedstock They identify the distinctions between pyrolysis gasification plasma hydrothermal gasification and supercritical systems A comprehensive summary of laboratory and demonstration activities is presented as well as field scale systems that have been in operation using solid waste streams as input highlighting their areas of disconnect and alignment The book also provides a summary of information on emissions from the stack comparing them with other thermal conversion systems using similar feedstock It then goes on to assess the areas that must be improved to ensure gasification systems become as successful as combustion systems operating on waste streams ranging from feedstock processing to gasifier output gas clean up downstream system requirements and corrosion The economics and future projections for waste gasification systems are also discussed For its consolidation of the current technical knowledge this text is recommended for engineering researchers graduate students industry professionals municipal engineers and decision makers when planning designing and deploying waste to energy projects especially those using MSW as feedstock Provides field demonstrations of large scale systems their results and the challenges that need to be overcome when developing commercial applications and possible solutions Presents the most recent technologies in lab and demonstration scale Examines the critical development needs and real life challenges for the deployment of waste to energy technologies Provides information on the economics and sustainability of these technologies as well as their future perspectives

Stages of Deployment of Syngas Cleaning Technologies Filomena Pinto,Rui Neto André,Ibrahim Gulyurtlu,2010 In the near future energy demand will have a great increase due to the enhancing needs in life quality all over the world and especially from large emerging economies of Asian countries like India and China Therefore it is of most importance to find alternative fuels and to increase the contribution of renewable energy to world wide energy production These goals could be achieved by using biomass wastes for energy production which would also allow decreasing large amounts of wastes with negative impact on environment and at the same time decreasing CO2 emissions and global warming This book analyses several gasification gas treatments either thermal or catalytic to accomplish a considerable decrease of undesirable compounds to guarantee the production of a clean gasification gas with a wide range of applications

Sustainable Food Waste-to-Energy Systems Thomas Trabold,Callie W. Babbitt,2018-09-05 Sustainable Food Waste to Energy Systems assesses the utilization of food waste in sustainable energy conversion systems It explores all sources of waste generated in the food supply chain downstream from agriculture with coverage of industrial commercial institutional and residential sources It provides a detailed analysis of the conventional pathways for food waste disposal and utilization including composting incineration landfilling and wastewater treatment Next users will find valuable sections on the chemical biochemical and thermochemical waste to energy conversion processes applicable for food waste and an assessment of commercially available sustainable food waste to energy conversion technologies Sustainability aspects including consideration of environmental economic and social impacts are also explored The book concludes with an analysis of how deploying waste to energy systems is dependent on cross cutting research methods including geographical information systems and big data It is a useful resource for professionals working in waste to energy technologies as well as those in the food industry and food waste management sector planning and implementing these systems but is also ideal for researchers graduate students energy policymakers and energy analysts interested in the most recent advances in the field Provides guidance on how specific food waste characteristics drive possible waste to energy conversion processes Presents methodologies for selecting among different waste to energy options based on waste volumes distribution and properties local energy demand electrical thermal steam opportunities for industrial symbiosis regulations and incentives and social acceptance etc Contains tools to assess potential environmental and economic performance of deployed systems Links to publicly available resources on food waste data for energy conversion

Advances in Synthesis Gas: Methods, Technologies and Applications Mohammad Reza Rahimpour,Mohammad Amin Makarem,Maryam Meshksar,2022-10-18 Advances in Synthesis Gas Methods Technologies and Applications Syngas Production and Preparation is a collection of various chapters concerning many aspects of syngas production technologies including common methods like gasification steam dry autothermal reforming membrane technology etc along with novel methods like plasma technology micro reactors electrolysis processes as well as photocatalytic systems In addition different sources for producing syngas including oil crude oil heavy oil microalgae black liquor tar and bitumen as well as municipal agricultural food plastic wood and cardboard wastes are described in detail Introduces syngas characteristics and its properties Describes various methods and technologies for producing syngas Discusses syngas production from different roots and feedstocks

Waste-to-Energy Technologies and Global Applications Efstratios N. Kalogirou, 2017-08-15 Through Waste to Energy WtE technology plants use waste as a renewable fuel to co produce electricity heating and cooling for urban utilization This professional book presents the latest developments in WtE technologies and their global applications The first part of the book covers thermal treatment technologies including combustion novel gasification plasma gasification and pyrolysis It then examines 35 real world WtE case studies from around the world analyzing technical information behind planning execution goals and national strategies Results through the years show the benefits of the technology through the life cycle of the products The book also examines financial and environmental aspects

Advances in Clean Energy Anand Ramanathan, Babu Dharmalingam, Vinoth Thangarasu, 2020-10-22 *Advances in Clean Energy Production and Application* supports sustainable clean energy technology and green fuel for clean combustion by reviewing the pros and cons of currently available technologies specifically for biodiesel production from biomass sources recent fuel modification strategy low temperature combustion technology including other biofuels as well Written for researchers graduate students and professionals in mechanical engineering chemical engineering energy and environmental engineering this book Covers global energy scenarios and future energy demands pertaining to clean energy technologies Provides systematic and detailed coverage of the processes and technologies used for biofuel production Includes new technologies and perspectives giving up to date and state of the art information on research and commercialization Discusses all conversion methods including biochemical and thermochemical Examines the environmental consequences of biomass based biofuel use

Waste to Energy Avraam Karagiannidis, 2012-01-05 Solid waste management is currently a major issue worldwide with numerous areas reaching critical levels Many developing countries and countries in transition still miss basic waste management infrastructure and awareness It is here that many of the solid waste management problems and challenges are currently being faced As such waste to energy WTE consists of a proven and continuously developing spectrum and range of technologies in a number of mostly developed countries However it s integration in developing countries and systems in transition is often faced with scepticism and a complex set of barriers which are quite unique and differ greatly from those where WTE has been validated and applied over the years *Waste to Energy Opportunities and Challenges for Developing and Transition Economies* will address this issue both theoretically and using concrete examples including contributions from numerous scholars and practitioners in the field useful lessons and rules of thumb both successful and failed cases and real life examples and developments *Waste to Energy* approaches this dynamic aspect of environmental engineering and management in a methodical and detailed manner making it an important resource for SWM planners and facility operators as well as undergraduate and post graduate students and researchers

Substitute Natural Gas from Waste Massimiliano Materazzi, Pier Ugo Foscolo, 2019-05-01 Substitute Natural Gas from Waste Technical Assessment and Industrial Applications of Biochemical and Thermochemical Processes provides an overview of the science and technology of anaerobic digestion and thermal gasification for the treatment of biomass and unrecyclable waste residues. The book provides both the theoretical and practical basis for the clean and high efficiency utilization of waste and biomass to produce Bio Substitute Natural Gas (SNG). It examines different routes to produce bio SNG from waste feedstocks, detailing solutions to unique problems such as scale up issues and process integration. Final sections review waste sourcing and processing. This book is an ideal and practical reference for those developing, designing, scaling, and managing bio SNG production and utilization systems. Engineering students will find this to be a comprehensive resource on the application of fundamental concepts of bio SNG production that are illustrated through innovative recent case studies. Presents detailed scientific and technical information. Describes up to date concepts, processes, and plants for efficient anaerobic digestion and gasification of wastes and syngas utilization. Compares gasification with anaerobic digestion for different situations. Proposes alternative strategies to increase efficiency and overcome energy balance limitations. Includes benchmarking data and industrial real life examples to demonstrate the main process features and implementation pathways of bio SNG systems from dry and wet waste both in developed and developing countries.

Advances in Synthesis Gas: Methods, Technologies and Applications Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2022-10-18 Advances in Synthesis Gas: Methods, Technologies and Applications: Syngas Products and Usage considers the applications and usages of syngas for producing different chemical materials such as hydrogen, methanol, ethanol, methane, ammonia, and more. In addition, power generation in fuel cells or in combination with heat from syngas, as well as iron reduction with economic and environmental challenges for syngas utilization, are described in detail. Introduces syngas characteristics and its properties. Describes various methods and technologies for producing syngas. Discusses syngas production from different roots and feedstocks.

Waste to Energy Conversion Technology Naomi B Klinghoffer, Marco J Castaldi, 2013-05-15 Increasing global consumerism and population has led to an increase in the levels of waste produced. Waste to energy (WTE) conversion technologies can be employed to convert residual wastes into clean energy rather than sending these wastes directly to landfill. Waste to energy conversion technology explores the systems, technology, and impacts of waste to energy conversion. Part one provides an introduction to WTE conversion and reviews the waste hierarchy and WTE systems options along with the corresponding environmental, regulatory, and techno-economic issues facing this technology. Part two goes on to explore further specific aspects of WTE systems engineering and technology and includes chapters on municipal solid waste (MSW) combustion plants and WTE systems for district heating. Finally, part three highlights pollution control systems for waste to energy technologies. Waste to energy conversion technology is a standard reference book for plant managers, building engineers, and consultants requiring an understanding of WTE technologies, and researchers, scientists, and academics interested in the field. Reviews the waste hierarchy and waste to energy systems options along with the environmental and social impact of WTE conversion plants. Explores the engineering and technology behind WTE systems, including considerations of municipal solid waste (MSW), its treatment, combustion, and gasification. Considers pollution control systems for WTE technologies, including the transformation of waste combustion facilities from major polluters to pollution sinks.

Advances in Energy from Waste Viola Vambol, Sergij Vambol, Nadeem A Khan, Nastaran Mozaffari, Niloofar Mozaffari, 2024-07-26 *Advances of Energy from Waste Transformation Methods Applications and Limitations Under Sustainability* provides advanced systematic information on the environmental transformation of waste and pollutants of various origins into useful products contributing to the development of the local economy and increasing the sustainability of the energy sector In addition remarkable competences in design performance efficiency and implementation of diverse systems utilized for waste energy recovery are summarized and evaluated This book will also include recent advances in biomass derived green catalysts for various catalytic applications are discussed in this book along with the challenges of controlled synthesis and the impact of morphological physical and chemical properties on their adsorption or desorption capability *Advances of Energy from Waste Transformation Methods Applications and Limitations Under Sustainability* discuss waste management priorities waste to energy environmental pollution remediation health risks circular economy recycling sustainability technologies and more Serves as a starting point for further research into waste management and biomass conversion Provides an overview of recent developments in the field of waste to energy Discusses recent advances in biomass derived green catalysts for various catalytic applications Introduces diverse case studies on waste pollution sustainability technologies health risk and future prospective

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