Syngas From Waste Emerging Technologies Green Energy And Technology

Syngas from WasteWaste Technology for Emerging EconomiesEmerging Technologies in Hazardous Waste Management 7Sustainable Smart Cities and the Future of Urban DevelopmentEmerging Energy Alternatives for Sustainable EnvironmentInnovations in Circular Economy and Renewable Energy in AfricaThe Handbook of PolyhydroxyalkanoatesNew Solutions for Smart Grids With High-Penetration Distributed Energy Resources Proceedings of Ninth International Congress on Information and Communication TechnologySyngas from WasteWealth from WasteCurrent AbstractsSustainable Food Waste ManagementThe Handbook of Polyhydroxyalkanoates, Three Volume SetMicrobial Biotechnology for Renewable and Sustainable EnergyNanomaterials from Agricultural and Horticultural ProductsAdvanced Customization in Architectural Design and ConstructionResource Management, Sustainable Development and GovernanceBiodegradable Waste Processing for Sustainable DevelopmentsEnvironmental Issues in Supply Chain Management Luis Puigjaner T.C. Bamunuarachchige D. William Tedder Al-Humairi, Safaa Najah Saud D P Singh Mona-Maria Narra Martin Koller Yang Li Xin-She Yang Luis Puigjaner A.K. Shrivastava Ruby Aslam Martin Koller Jitendra Kumar Saini Azamal Husen Roberto Naboni Baleshwar Thakur Arbind Prasad Paulina Golinska Syngas from Waste Waste Technology for Emerging Economies Emerging Technologies in Hazardous Waste Management 7 Sustainable Smart Cities and the Future of Urban Development Emerging Energy Alternatives for Sustainable Environment Innovations in Circular Economy and Renewable Energy in Africa The Handbook of Polyhydroxyalkanoates New Solutions for Smart Grids With High-Penetration Distributed Energy Resources Proceedings of Ninth International Congress on Information and Communication Technology Syngas from Waste Wealth from Waste Current Abstracts Sustainable Food Waste Management The Handbook of Polyhydroxyalkanoates, Three Volume Set Microbial Biotechnology for Renewable and Sustainable Energy Nanomaterials from Agricultural and Horticultural Products Advanced Customization in Architectural Design and Construction Resource Management, Sustainable Development and Governance Biodegradable Waste Processing for Sustainable Developments Environmental Issues in Supply Chain Management Luis Puigjaner T.C. Bamunuarachchige

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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

this unique volume covers many aspects of waste management in developing countries there is a focus on various sources of waste including the pressing issues of agricultural medicinal industrial and urban waste and emerging problems with e waste nanowaste and microplastics in marine environments this volume addresses the critical environmental issues resulting from rapid urbanization and industrialization particularly in the developing world high end technologies that can utilize waste as a resource to generate products processes and revenue are also discussed features presents technical perspectives on emerging wastes in developing economies discusses the issues of e waste which is growing three times faster than general municipal waste globally covers the spectrum of nanowaste to upcycling in the market discusses management of marine plastic debris and microplastics diverse audience including those in solid waste management electrical and electronic technology and the medical industry

proceedings of the i ec division of the acs symposium held in birmingham alabama september 17 20 1996

as global urbanization continues to accelerate smart cities emerge as a strategy to address the complexities of modern urban life these cities invest in human and social

capital communication infrastructure and technology to drive sustainable economic growth and ensure a high quality of life participatory governance plays a crucial role in managing natural and man made resources effectively driven by a growing global population and a pressing need to address environmental concerns the concept of a smart city has emerged as a potential solution sustainable smart cities and the future of urban development delves into the exciting intersection of sustainable development and smart city technologies exploring how these forces can be harnessed to shape a more livable and resilient future for our urban environments through a multidisciplinary lens this book explores the concept of sustainable smart cities by elucidating their fundamental characteristics and components covering topics such as artificial intelligence ai renewable energy and waste management this book is an excellent resource for urban planners architects technology developers innovators community leaders industry professionals academicians researchers and more

sustainability of environment is an emerging global issue at present unsustainable or deteriorating environment is a matter of concern as it has threatened the survival of living creatures recently climate change has been matter of great concern at a global platform owing to imbalances in natural environment increasing population has increased the demand for energy which has ultimately put pressure on natural resources and caused a paradigm shift from resource generation to exploitation emerging energy alternatives for sustainable environment aims to address the role of sustainable technologies in energy generation options for clean environment it covers a wide spectrum of energy generation approaches with an emphasis on five key topics i renewable energy sources and recent advances ii emerging green technologies for sustainable development iii assessment of biomass for sustainable bioenergy production iv solid waste management and its potential for energy generation and v solar energy applications storage system and heat transfer this book provides essential and comprehensive knowledge of green energy technologies with different aspects for engineers technocrats and researchers working in the industry universities and research institutions the book is also very useful for undergraduate and graduate students of science and engineering who are keen to know about the development of renewable energy products and their corresponding processes

in many african countries access to electricity and modern energy fuels remains a significant concern over 570 million people in sub saharan africa still lack electricity and only 18 have access to modern cooking fuels the region faces immense challenges including massive debts lack of maintenance and system failures underscoring the urgent need for investment in the energy sector s transition africa s overreliance on fossil fuels and the growing demand for energy driven by economic expansion and population growth

could lead to sharp increases in greenhouse gas emissions meanwhile urbanization economic activities and rising living standards are increasing waste production making waste management a pressing issue the absence of adequate waste treatment technologies financing and regulatory frameworks exacerbates this challenge biomass remains a predominant energy source in sub saharan africa often used in its raw state leading to health hazards from incomplete combustion however the continent s abundant agricultural residues and other energetic wastes offer a significant opportunity these can be transformed into various energy carriers helping to meet or supplement africa s energy and fuel needs the current situation presents a unique opportunity for africa to shift from a fossil based economy to a sustainable green economy leveraging technology knowledge and skills can support this rapid transition and drive economic growth innovations in circular economy and renewable energy highlights current advancements in waste management biomass utilization for energy and innovations in green hydrogen production in africa this book showcases predominantly african research and insights first presented at the first international conference on circular economy renewable energy and green hydrogen in kumasi ghana in september 2023 dive into this essential resource to explore transformative waste to energy technologies the hybridization and flexibilization of renewable energy systems and the path towards a sustainable future for africa

the first volume of the handbook of polyhydroxyalkanoates pha microbial biosynthesis and feedstocks focusses on feedstock aspects enzymology metabolism and genetic engineering of pha biosynthesis it addresses better understanding the mechanisms of pha biosynthesis in scientific terms and profiting from this understanding in order to enhance pha biosynthesis in bio technological terms and in terms of pha microstructure it further discusses making pha competitive for outperforming established petrol based plastics on industrial scale and obstacles for market penetration of pha aimed at professionals and graduate students in polymer plastic industry wastewater treatment plants food industry biodiesel industry this book covers the intracellular on goings in pha accumulating bacteria assesses diverse feedstocks to be used as carbon source for pha production including current knowledge on pha biosynthesis starting from inexpensive waste feedstocks summarizes recent relevant results dealing with pha production from various organic by products presents the key elements to understand and fine tune the microstructure and sequence controlled molecular architecture of pha co polyesters discusses the use of co rich syngas sourced from various organic waste materials for pha biosynthesis

this book gathers selected high quality research papers presented at the ninth international congress on information and communication technology held in london on

february 19 22 2024 it discusses emerging topics pertaining to information and communication technology ict for managerial applications e governance e agriculture e education and computing technologies the internet of things iot and e mining written by respected experts and researchers working on ict the book offers an asset for young researchers involved in advanced studies the work is presented in ten volumes

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

this book is a authentic guide to those authorities enterpreneurs who want to develop an understanding of innovative waste recycling procedure

this book highlights established research and technology on corrosion inhibitors and bio waste management it further discusses emerging aspects of utilizing food waste in the field of corrosion inhibition the topics covered include overview on bio waste and their management different types of food waste i e agricultural vegetable and fruit fruit juice plant waste slaughterhouse trash and their application as corrosion inhibitors and mitigation of corrosion it also discusses economic aspects and commercialization of food waste as corrosion inhibitors the book is a valuable reference for beginners researchers and professionals working in the areas of sustainability food waste management and material science

the handbook of polyhydroxyalkanoates pha focusses on and addresses varying facets of pha biosynthesis and processing spread across three volumes the first volume discusses feedstock aspects enzymology metabolism and genetic engineering of pha biosynthesis it addresses better understanding the mechanisms of pha biosynthesis in scientific terms

and profiting from this understanding in order to enhance pha biosynthesis in bio technological terms and in terms of pha microstructure it further discusses making pha competitive for outperforming established petrol based plastics on industrial scale and obstacles for market penetration of pha this second volume focusses on thermodynamic and mathematical considerations of pha biosynthesis bioengineering aspects regarding bioreactor design and downstream processing for pha recovery from microbial biomass it covers microbial mixed culture processes and includes a strong industry focused section with chapters on the economics of pha production industrial scale pha production from sucrose next generation industrial biotechnology approaches for pha production based on novel robust production strains and holistic techno economic and sustainability considerations on pha manufacturing third volume is on the production of functionalized pha bio polyesters the post synthetic modification of pha processing and additive manufacturing of pha development and properties of pha based bio composites and blends the market potential of pha and follow up materials different bulk and niche applications of pha and the fate and use of spent pha items divided into fourteen chapters it describes functionalized pha and pha modification processing and their application including degradation of spent pha based products and fate of these bio polyesters during compositing and other disposal strategies aimed at professionals and graduate students in polymer plastic industry wastewater treatment plants food industry biodiesel industry this set presents comprehensive and holistic consideration of these microbial bioplastics in the volumes enables reader to learn about microbiological enzymatic genetic synthetic biology and metabolic aspects of pha biosynthesis based on the latest scientific discoveries discusses design and operate a pha production plant strong focus on post synthetic modification preparation of functional pha and follow up products and pha processing covers all related engineering considerations

this book covers various aspects of microbial biotechnology to produce bioenergy it focuses on production of biofuels from plant and microbial biomass including agri food residues and other wastes it educates readers about various biomass resources major aspects of production of renewable energy and fuels based on biochemical conversion routes there is special focus on the microbial system and biotechnological processes as well as process optimization and industrial scale up the book brings together current challenges and potential solutions to enhance biomass to biofuel bioconversion it is relevant for researchers academicians students as well as industry professionals working on biomass based biorefineries

this book gives a complete overview of current developments in the fabrication and diverse applications of metal and metal oxide nanomaterials synthesized from agricultural

horticultural products and organic waste materials nanoparticles are thought to have been present on earth naturally since its origin in the form of soil water volcanic dust and minerals besides their natural origin they have been also synthesized by using physical chemical and biological means the chapters in this book look at agricultural as well as horticultural wastes from industries such as palm oil rubber paper wood vegetable coffee tea rice wheat maize grass and fruit juice processing factories and describe the methods to extract and synthesize metal and metal oxide nanoparticles which are then applied in various sectors such as food agriculture cosmetics and medicines industries the book is a reference source for academician scientists policymakers students and researchers scientist working in minimizing the environmental pollution and implementing nanotechnology into agricultural waste products to produce eco friendly and cost effective nanoparticles

this book presents the state of the art in advanced customization within the sector of architectural design and construction explaining important new technologies that are boosting design product and process innovation and identifying the challenges to be confronted as we move toward a mass customization construction industry advanced machinery and software integration are discussed as well as an overview of the manufacturing techniques offered through digital methods that are acquiring particular significance within the field of digital architecture cnc machining robotic fabrication and additive manufacturing processes are all clearly explained highlighting their ability to produce personalized architectural forms and unique construction components cutting edge case studies in digitally fabricated architectural realizations are described and looking towards the future a new model of 100 customized architecture for design and construction is presented the book is an excellent guide to the profound revolution taking place within the fields of architectural design and construction characterized by computational tools advanced fabrication means and custom made high performance architecture

this book examines the relationship between natural resource management sustainable development and governance with case studies from india and other places covering disaster risk reduction conflict resolution capacity building climate change adaptation and resilience citizen engagement and ecological conservation though the studies focus mostly on cases in india the volume discusses how governance can be employed to help develop and implement sustainable practices globally through the lens of the united nations sustainable development goals sdgs framework readers will learn how to integrate concepts of resource management sustainable development and governance to improve human resilience to global environmental change and to assess the proper development

approaches to assist economically stressed and resource deprived individuals the book will be of use to graduate students and academics policy makers planners and nonprofits

the text comprehensively highlights the key issues surrounding the implementation of waste to energy systems such as site selection regulatory aspects and financial and economic implications it further discusses environmental aspects of food waste to energy conversion microbial fuel cells mfcs for waste recycling and energy production and valorization of algal blooms and their residues into renewable energy this book discusses the environmental impact of waste to energy and sustainable waste to energy technologies in a comprehensive manner presents life cycle assessment studies and perspective solutions in waste to energy sectors covers applications of smart materials in thermal energy storage systems explains thermo chemical technologies for recycling plastic waste for energy production and recovery of valuable products illustrates biorefineries and case studies for sustainable waste valorization it is primarily written for senior undergraduate nad graduate students and academic researchers in the fields of mechanical engineering environmental engineering energy studies production engineering industrial engineering and manufacturing engineering

the aim of the book is to present the emerging environmental issues in organization and management of complex supply chains the book includes set of solutions which show different stakeholders viewpoints on sustainability the scope of book takes into consideration how the emerging environmental regulation might be transformed into business practices therefore the authors present the innovative approach to eco friendly organization and coordination of logistics processes and supply chain configuration a broad scope of practical solutions from different countries and industries is provided

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