

Pdf Economics Of Torrefaction Plants And Businesses Buying

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focus on net carbon capture bioenergy technologies which fully address the challenge of climate change focus on optimising use of co products and non food plant materials reviews of key technologies and products cover both principles and practical applications including case studies

torrefaction of biomass for energy applications from fundamentals to industrial scale explores the processes technology end use and economics involved in torrefaction at the industrial scale for heat and power generation its authors combine their industry experience with their academic expertise to provide a thorough overview of the topic starting at feedstock pretreatment followed by torrefaction processes the book includes plant design and operation safety aspects and case studies focusing on the needs and challenges of the industrial scale commercially available technologies are examined and compared and their economical evaluation and life cycle assessment are covered as well attention is also given to non woody feedstock alternative applications derived fuels recent advances and expected future developments for its practical approach this book is ideal for professionals in the biomass industry including those in heat and power generation it is also a useful reference for researchers and graduate students in the area of biomass and biofuels and for decision makers policy makers and analysts in the energy field compares efficiency and performance of different commercially available technologies from the practical aspects of daily operation in an industrial scale plant presents a cost analysis of the production logistics and storage of torrefied biomass includes case studies addressing challenges that may occur in the daily operation in an industrial scale plant covers other associated technologies the densification of torrefied biomass and non woody feedstock

biomass gasification pyrolysis and torrefaction practical design theory and climate change

mitigation fourth edition explores the role of biomass conversion in climate change mitigation with a focus on design analysis and operational aspects of biomass gasification pyrolysis and torrefaction this edition offers comprehensive coverage of biomass in its gas liquid and solid states processing and cleaning of product gas in gasification is considered as are biomaterials and their development making this a versatile resource that not only explains the basic principles of energy conversion systems but also provides valuable insights into the design of a complete biomass conversion systems for the first time hydrogen production for fuel cells applications is addressed reflecting the expanding role of hydrogen as a fuel source although the book carries the name biomass the bulk of its content is also applicable to non biomass fuels like coal petcoke municipal solid waste and others this book will allow professionals such as engineers scientists and operating personnel of biomass gasification pyrolysis or torrefaction plants to gain a better comprehension of biomass conversion features updates with the most recent research and technology includes a dedicated chapter on hydrogen production for fuel cell application explores the application of biomass conversion in climate change mitigation and sustainable development contains updated step by step process flow diagrams design data conversion charts and numerical examples with solutions provides available research results in an easy to use design methodology spotlights advanced processes such as supercritical water gasification and torrefaction of biomass examines the economic aspects of biomass conversion including ecological economics and the circular economy for sustainable development

considering the deleterious impacts of fossil fuels on the environmental and natural ecosystems it has become imperative to make a paradigm shift toward renewable fuels chemicals and materials the exhaustive everyday usage of fossil fuels and processed petrochemical products are the leading causes for the increase in greenhouse gas emissions global warming climate changes acid rain ozone layer depletion pollution of air water and soil as well as for the accumulation of nonbiodegradable materials in the soil and oceans on the contrary biofuels biochemicals and biomaterials derived from renewable wastes such as nonedible plant biomass e g agricultural and forestry biomass energy crops microalgae municipal solid waste sewage sludge and other biogenic residues seem to be carbon neutral therefore the global interest in biorefining technologies especially thermochemical and biological conversion processes is gaining momentum in academic and industrial perspectives progressive thermochemical biorefining technologies offers all inclusive coverage of the most crucial topics as follows state of the art information on the production and utilization of biofuels through thermochemical biorefining technologies conversion of waste biomass through pyrolysis liquefaction torrefaction carbonization gasification reforming and other clean technologies waste to energy chemical generation fuel upgrading technologies techno economic analysis and life cycle assessment of biorefining processes specifically designed to be instantly applicable this volume serves as a reference book for undergraduate and graduate students scientific investigators and research scholars working in the areas relating to energy and fuels

this special issue presents the latest state of the art research on solid fuels technology with dedicated focused research papers there are a variety of topics to choose from among the seven published research works to bring you up to date with the current trends in academia and industry

fuel property estimation and combustion process characterization is a thorough tool book which provides readers with the most up to date valuable methodologies to efficiently and cost effectively attain useful properties of all types of fuels and achieve combustion process characterizations for more efficient design and better operation through extensive experience in fuels and combustion kiang has developed equations and methodologies that can readily obtain reasonable properties for all types of fuels including wastes and biomass which enable him to provide guidance for designers and operators in the combustion field in order to ensure the design operation and diagnostics of all types of combustion systems are of the highest quality and run at optimum efficiency written for professionals and researchers in the renewable energy combustion chemical

and mechanical engineering fields the information in this book will equip readers with detailed guidance on how to reliably obtain properties of fuels quickly for the design operation and diagnostics of combustion systems to achieve highly efficient combustion processes presents models for quick estimation of fuel properties without going through elaborate costly and time consuming sampling and laboratory testing offers methodologies to determine combustion process characteristics for designing and deploying combustion systems examines the fundamentals of combustion applied to energy systems including thermodynamics of traditional and alternative fuels combustion presents a fuel property database for over 1400 fuels includes descriptive application of big data technology using dual properties analysis as an example provides specific technical solutions for combustion fuels and waste processing

urbanisation and climate change are pushing cities to find novel pathways leading to a sustainable future the urban context may be viewed as a new experimentation space to accelerate the transition to a circular economy urban symbiosis and the circular economy are emerging concepts attracting more and more attention within the urban context moreover new business models are emerging around sharing and peer to peer practices which are challenging existing roles of actors in society these developments are having an important impact on the flows of resources and the use of the city infrastructure and each research area has taken a different perspective in the analysis of such impacts this special issue aims to explore what a circular city could constitute and how and why cities engage in circularity this special issue includes seven high quality papers on the theories and practices of circular cities actors concepts methods tools the barriers to and enablers of circular cities are discussed and a solid base and inspiration for the future development of circular cities are provided

the book catalogues the 200 species of medicinal plants most commonly used in traditional vietnamese medicine the book which has been translated from the original vietnamese was produced in an effort to communicate knowledge about herbal medicine that has accumulated over thousands of years has been confirmed through both empirical experience and scientific evaluation and yet has rarely been published outside the vietnamese literature it also responds to increasing respect for the value of medicinal plants as a source of efficacious and inexpensive new drugs that offer an important alternative to chemically synthesized medicines the book has three main parts the first part describes research in vietnam conducted on medicinal plants in line with the national policy of developing a system of medicine and pharmacy that integrates the modern and traditional systems the second part which constitutes the core of the book describes and illustrates the 200 most valuable species of wild and cultivated medicinal plants in vietnam each plant species is first documented by a full color drawing illustrating the plant's distinctive features and natural colors explanatory notes for each species provide a concise description of the plant and give local names flowering period geographical distribution parts used chemical composition and therapeutic uses information on indications and dosage is also provided to facilitate retrieval of information the third part indexes plant species according to botanical name vietnamese name and english name

aggregated book

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