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biotechnological applications of biomass provides a comprehensive overview of the current state of the art of biomass utilization in agriculture and pharmaceuticals the information contained herein is useful to researchers and other readers interested in biomass utilization and production of bioproducts

a thermo economic approach to energy from waste provides readers with the tools to analyze the effectiveness of biomass waste conversion into value added products and how thermochemical conversion methods can be commercialized with minimum environmental impact the book provides a comprehensive overview of biomass conversion technologies through pyrolysis including the types of reactors available reactor mechanisms and the upgradation of bio oil case studies are provided on waste disposal in selected favelas slums of rio de janeiro including data on subnormal clusters and analyses of solid waste in the 37 slums of catumbi step by step guidance is provided on how to use a life cycle assessment lca approach to analyze the potential impact of various waste to energy conversion technologies and a brief overview of the common applications of lca in other geographical locations is presented including united states europe china and brazil finally waste to value added functional catalysts for the transesterification process in biodiesel production are discussed alongside various other novel technologies for biodiesel production process simulation and techno economic analysis of biodiesel production bringing together research and real world case studies from an lca perspective the book provides an ideal reference for researchers and practitioners interested in waste to energy conversion lca and the sustainable production of bioenergy presents an overview of the technologies for the production of biofuels from waste via pyrolysis and gasification provides a guide to the utilization of lca to assess the economic and environmental impact of value added products describes real world case studies on the implementation of lca in waste to energy scenarios

plantation crop residues are a significant waste products of modern horticulture these residues derived from numerous plantation crops such as cocoa coffee rubber tea areca nuts palmyra palm and coconut are usually left to decompose leading to environmental degradation pollution of groundwater and health hazards however with the growing demand for sustainable agricultural practices innovative approaches are necessary to utilize these residues this book aims to comprehensively explore the potential of plantation crop waste valorization showcasing innovative technologies and applications for transforming waste materials into value added commodities biofuels and platform chemicals for a sustainable economy plantation crop wastes valorization for economic sustainability addresses various aspects of the plantation crop waste to wealth paradigm and will be a valuable resource for academics researchers policymakers and industry

professionals seeking sustainable solutions for the management of plantation crop waste covers biorefinery approaches to plantation crop wastes in different domains and applications explores the economic viability and policy implications of plantation crop waste valorization provides a lifecycle analysis of various waste valorization processes and products

this book provides a comprehensive overview of biochar as a sustainable solution within the context of agriculture waste management environmental remediation and the circular economy the initial chapters introduce the concept of biochar and its alignment with circular economic principles and presents the mechanisms of action and multifunctional benefits across different sectors the chapters explore innovative biochar production techniques using agricultural residues food waste and municipal sludge highlighting efficiency scalability and environmental impact the book also details the application of biochar in soil enhancement wastewater treatment and bioenergy systems including biogas and biohydrogen production the final chapters emphasize the pivotal role of biochar in carbon sequestration and climate change mitigation solidifying its relevance to global sustainability goals key features explains the concept of biochar within the framework of the circular economy and sustainable development details innovative production techniques using various biomass feedstocks including agricultural waste food scraps and sewage sludge explores agricultural applications such as improving soil structure fertility and crop yield presents industrial uses of biochar in removing contaminants like heavy metals and dyes from wastewater highlights its role in anaerobic digestion and renewable energy especially in biogas and hydrogen generation this book is useful for researchers and professionals of biotechnology and environmental sciences

the unece fao forest products annual market review 2011 2012 provides general and statistical information on forest products markets and related policies in the un economic commission for europe region europe north america and the commonwealth of independent states the review begins with an overview chapter followed by description of the macro economic situation next it includes an analysis of government and industry policies affecting forest products markets five chapters are based on annual country supplied statistics describing wood raw materials sawn softwood sawn hardwood wood based panels and paper paperboard and woodpulp additional chapters discuss markets for wood energy certified forest products value added wood products forest carbon and innovative wood products in each chapter production trade and consumption are analysed and relevant material on specific markets is included tables and graphs provided throughout the text present summary information supplementary statistical tables may be found on the unece timber committee and fao european forestry commission website at unece.org

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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

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