Biodiesel Production Properties And Feedstocks

Production of Biodiesels from Multiple Feedstocks and Properties of Biodiesels and Biodiesel/diesel BlendsHydrogen Production Processes in Refining TechnologyBiofuels Production and Processing TechnologySustainable Valorization of Date Palm By-products and WastesAdvances in Powder Metallurgy and Particulate Materials, 1996Gas Cleaning Processes in Refining TechnologyDesigner Biochar Assisted Bioremediation of Industrial EffluentsBiochar-Based Catalysts for Removal of Environmental ContaminantsConference ProceedingsAdditive ManufacturingLow Cost Water and Wastewater Treatment Systems: Conventional and Recent AdvancesProcessing and Fabrication of Advanced Materials VIChemical Engineering ProgressYield Characteristics of Biodiesel Produced from Chicken Fat-tall Oil Blended FeedstocksProceedings of the 1998 Powder Metallurgy World Congress & Exhibition, Granada, Spain, October 18-22, 1998: Powder injection moulding, PM steels, applications, joining, high alloy steels, electrical materialsAOSTRA Journal of ResearchHandbook of Synfuels TechnologyMaterials and TechnologiesAdvances in Powder Metallurgy & Particulate Materials, 1998Bulletin John A. Kinast James G. Speight M.R. Riazi Sajid Maqsood Terry M. Cadle James G. Speight Riti Thapar Kapoor Riti Thapar Kapoor Society of Plastics Engineers. Technical Conference Amit Bandyopadhyay Xuan-Thanh Bui K. A. Khor Robert Allen Meyers Ionel Chicina Sekiyu Gakkai (Japan)

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this book details the various approaches to the production of hydrogen in petroleum refining the need for hydrogen is addressed and then the differences between the processes are detailed this practical and accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the

refining industry key features describes hydrogen purification methods and processes providing relevant process data and fully describing process operations describes hydrogen purification methods and processes detailing the types of feedstock that can be used and exploring the options and parameters of each process details commercial processes including gasification pretreatment and reactions and considers next generation processes and developments

the importance of biofuels in greening the transport sector in the future is unquestionable given the limited available fossil energy resources the environmental issues associated to the utilization of fossil fuels and the increasing attention to security of supply this comprehensive reference presents the latest technology in all aspects of biofuels production processing properties raw materials and related economic and environmental aspects presenting the application of methods and technology with minimum math and theory it compiles a wide range of topics not usually covered in one single book it discusses development of new catalysts reactors controllers simulators online analyzers and waste minimization as well as design and operational aspects of processing units and financial and economic aspects the book rounds out by describing properties specifications and quality of various biofuel products and new advances and trends towards future technology

sustainable valorization of date palm byproduct and wastes provides a comprehensive resource on the sustainable valorization of date byproducts and waste composed of 13 chapters this book highlights the various green technologies and processing methods that can be used to extract valuable compounds from these byproducts and convert them into high value products such as biofuels animal feed and functional food ingredients bringing together contributions from leading experts in the field of food science and technology this title provides a valuable resource for professionals and researchers in the industry as well as policymakers entrepreneurs and students date palm is a significant crop in many regions of the world producing large quantities of byproducts and wastes that are often underutilized or wasted includes information on the various byproducts generated from date palm processing brings the composition and properties of date palm byproducts explores the different green technologies and processing methods for date palm byproducts valorization provides practical solutions for the utilization of date palm byproducts

this book focuses on the various refinery processes that are used for gas cleaning operations by understanding the use of gas cleaning processes this book will satisfy the needs of engineers and scientists at all levels from academia to the refinery and help them understand the initial various processes this accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry key features describes gas streams produced in a crude oil refinery and from non refinery feedstocks covers gas condensate gas from biomass waste and landfill waste and details categorization by types of contaminants and by removal method provides an extensive glossary discusses the future of gas cleaning operations and the evolution of the industry this series of eight books is designed to present descriptions of 1 the development of technologies for a variety of feedstocks including the viscous feedstocks which are often referred to as heavy feedstocks utilizing advanced pre treatment processing and hydrotreating 2 an analysis of the catalyst deactivation mechanism for developing optimum technologies for processing feedstocks with low reactivity 3 the

development of advanced technologies applicable to the viscous feedstocks 4 the development of advanced hydrocracking processes for heavy feedstock upgrading 5 the development of innovative upgrading processes for the viscous feedstocks and 6 the role of biomass in the future refinery furthermore each book is a stand alone volume that will bring the reader further up to date and adds more data as well as processing options that may be the processes of the evolving twenty first century as the eighth book in the series this book will focus on the various refinery processes that are used for gas cleaning operations the target audience includes engineers scientists and students who want an update on crude oil processing and the direction of the industry in the next 50 years such personnel include 1 professionals in the refining industry 2 technicians in the refining industry 3 industry management personnel who need to understand the various processes and the role of these process in producing the desired feedstocks for further processing and the use of solvents to produce saleable products and 4 the academic staff and graduate students who are moving into the refining industry any non technical readers with help from the extensive glossary will also benefit from the series

this book provides useful information and applications of biochar produced from agricultural waste for removal of contaminants from industrial effluent and reutilization of waste sludge in the production of biofuel bioenergy it describes how designer or modified biochar or combined application biochar microbes can be applied successfully for reuse of wastewater and contaminated soil for ecorestoration environment protection and sustainable development it also deals with the unique features advantages and disadvantages of techniques for biochar production and analyses it underlines a road map in development of future strategy for pollution abatement and sustainable development features provides exhaustive coverage of biochar and its production and properties highlights use of biochar in pollution control and environment protection covers use of agricultural waste waste biomass for dye decolorization and degradation explores synergistic approaches for contaminants removal for better insights into basic and advanced biotechnological applications describes how biochar treatment can be successfully applied for reuse of wastewater and contaminated soil ecorestoration and environment protection this book is aimed at graduate students and researchers in chemical biochemical engineering biotechnology environmental sciences engineering and agriculture engineering

biochar based catalysts for removal of environmental contaminants advanced treatment technologies using computational tools offers a comprehensive exploration of cutting edge research and future directions in utilizing waste biomass for biochar catalyst development and environmental remediation the book delves into the application of computational tools for wastewater and industrial effluent treatment soil remediation and air pollutant removal from an in depth analysis of ai and ml tools in enhancing process efficiency to case studies showcasing the practical implications of biochar based catalysts the book equips readers with the knowledge and strategies needed to address environmental challenges effectively researchers and policymakers will find guidance on planning future research endeavors and making informed decisions to unlock the full potential of waste biomass resources for sustainable development and the circular bio economy readers from a variety of backgrounds will find this to be a great resource that bridges the gap between current knowledge and future strategies offering a roadmap towards achieving carbon neutrality and environmental sustainability analyzes state of the art applications of waste biomass in the development of biochar based catalysts for wastewater

industrial effluent treatment soil remediation and air pollutant removal explores integrated approaches technological advancements and optimization strategies utilizing ai and ml tools to enhance process efficiency and sustainability discusses future research strategies and how to make informed decisions to unlock the potential of waste biomass for the circular bio economy industrial development and achieving carbon neutrality for sustainable development

the field of additive manufacturing is growing dynamically with continued interest from manufacturing and other sectors conceptually additive manufacturing is a method to build parts without using any part specific tooling or dies from a computer aided design file this new edition of additive manufacturing highlights the applications in aerospace industries biomedical devices and construction industries with new material on additive manufacturing at the nano and microscale as well as questions and additional reading materials key features covers basics and current technology of 3d printing of all types of materials including detailed discussions of the concerned applications highlights the latest advancements in 3d printing and additive manufacturing technologies includes new material on recent applications of additive manufacturing in aerospace space biomedical and construction industries contains suggested reading questions for instructors and powerpoint slides for each chapter includes regulatory issues in additive manufacturing this book is intended for students and researchers in the field of mechanical manufacturing materials and industrial engineering

low cost water and wastewater treatment systems conventional and recent advances introduces different conventional and advanced low cost systems for water and wastewater treatment the technologies involve conventional biological processes with low cost and newly developed processes for improving the performance of the treatment processes the book also contains chapters describing some main topics which discusses their principles development and applications 1 low cost biological treatment system 2 bioremediation technologies 3 natural based technologies 4 biomedia based technologies 5 adsorption based technologies 6 membrane filtration based technologies and 7 emerging technologies it investigates various low cost treatment technologies and applies these to the removal of organic matters nutrients and emerging micro pollutants in developing countries and worldwide provides up to date information on low cost biological treatment systems includes water and wastewater treatment and reuse by low cost membrane systems presents state of the art information on design and operation of biological low cost systems

the primary objective of this study was to investigate the conversion of chicken fat and tall oil both individually and in a blend into biodiesel the conventional base catalyzed method of biodiesel production has shown to be inappropriate for the conversion of high free fatty acid containing feedstocks such as tall oil due to the undesired saponification reaction that takes place likewise the acid catalyzed method of biodiesel production has been shown to be inappropriate for the conversion of triglyceride containing feedstocks such as chicken fat due to the long reaction times and large excess of methanol required therefore an alternate reaction pathway was investigated for these two very different feedstocks supercritical methanol treatment which requires no separate catalyst was the method chosen following the development of proper protocol both chicken fat and tall oil fatty acids were reacted in supercritical methanol to produce biodiesel under a matrix

of temperatures and methanol to fee stock ratios results indicate that the chicken fat and tall oil fatty acids can be converted successfully in a single step with yields in excess of 89 out of 91 max and 94 respectively the optimum temperature and excess methanol was determined and the results suggest the use of a two step process involving the initial hydrolysis of triglyceride containing feeds followed by the supercritical esterification of the resulting existing free fatty acids the results of one such test proved to be satisfactory and are reported herein furthermore crude tall oil was also tested in the system to investigate its viability as a biodiesel feedstock with limited success cold flow properties such as viscosity and cloud point are reported for the resultant fuels the viscosities of all of the fuels exceeded the astm d6751 acceptable specifications for biodiesel therefore blending with other biodiesel fuels such as methyl soyate would be required for widespread use of the fuels produced under the conditions reported herein as commercial biodiesel

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