

Biodiesel Production Properties And Feedstocks

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Hydrogen Production Processes in Refining Technology
Refinery Feedstocks Biochar-Based Catalysts for Removal of Environmental Contaminants
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written by an industry expert with over 50 years of experience this book details the various solvent processes that are used in crude oil refineries providing an in depth exploration of the different types of processes as well as the types of feedstocks that can be used with them this book prepares readers for changes as the industry evolves key features describes feedstock

evaluation and the effects of elemental chemical and fractional composition contains an extensive glossary of all related concepts in hydrotreating and hydrocracking processes considers next generation processes and developments this book is an essential guide for engineers scientists and students in the field of petroleum processing and refining technology including professionals technicians management personnel and academics

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

over the last several decades the petroleum industry has experienced significant changes in resource availability petro politics and technological advancements dictated by the changing quality of refinery feedstocks however the dependence on fossil fuels as the primary energy source has remained unchanged refinery feedstocks addresses the problems of changing feedstock availability and properties the refining process and solids deposition during refining this book will take the reader through the various steps that are necessary for crude oil evaluation and refining including the potential for the use of coal liquids shale oil and non fossil fuel materials biomass as refinery feedstocks other features describes the various types of crude oil and includes a discussion of extra heavy oil and tar sand bitumen includes basic properties and specifications of crude oil and the significance in refinery operations this book is a handy reference for engineers scientists and students who want an update on crude oil refining and on the direction the industry must take to assure the refinability of various feedstocks and the efficiency of the refining processes in the next fifty years non technical readers with help from the extensive glossary will also benefit from reading this book

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

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

this book provides the latest technical information on sustainable materials that are feedstocks for additive manufacturing am topics covered include an up to date and extensive overview of raw materials their chemistry and functional properties of their commercial versions a description of the relevant am processes products applications advantages and limitations prices and market data and a forecast of sustainable materials used in am their properties and applications in the near future data included are relative to current commercial products and are presented in easy to read tables and charts features highlights up to date information and data of actual commercial materials offers a broad survey of state of the art information forecasts future materials applications and areas of r d contains simple language explains technical terms and minimizes technical lingo includes over 200 tables nearly 200 figures and more than 1 700 references to technical publications mostly very recent handbook of sustainable polymers for additive manufacturing appeals to a diverse audience of students and academic technical and business professionals in the fields of materials science and mechanical chemical and manufacturing engineering

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

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 feed 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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selected peer reviewed papers from the 4th international conference on materials and manufacturing technologies matehn 06 21 23 september cluj napoca romania

the large number and high quality of the papers making up this collection reflect the continuing vigor of the powder metallurgy industry and associated research all over the world the emergence of such new fields as nano materials cellular materials and process modeling by computer simulation is very evident while traditional fields such as compaction and sintering are also being tackled anew using more sophisticated concepts and tools 26 globalization of the economic structure presents challenging opportunities for powder metallurgy and there is an increasing demand for high productivity low cost highquality new products together with reduced

pollution also described herein are many new materials concepts and tools that can be used in powder metallurgy the collection shows the need to expand the field of pm and link it to other related fields such as ceramics polymers and biomaterials after all ceramics for example are just metal powders in oxide carbide or nitride form the contents are divided into the chapters powder manufacturing mechanical alloying powder compaction powder injection moulding powder forging spray forming rapid prototyping sintering post sintering processes steels light alloys composite materials porous and cellular materials ceramic materials diamond and cbn tools hard materials refractory materials heavy alloys magnetic materials nano ultra fine grained materials pm materials for electrical and electronic applications functionally graded materials pm materials for aerospace applications superconducting materials test and evaluation 26 pm production equipments prospects of pm research industry a true vade mecum on the subject

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