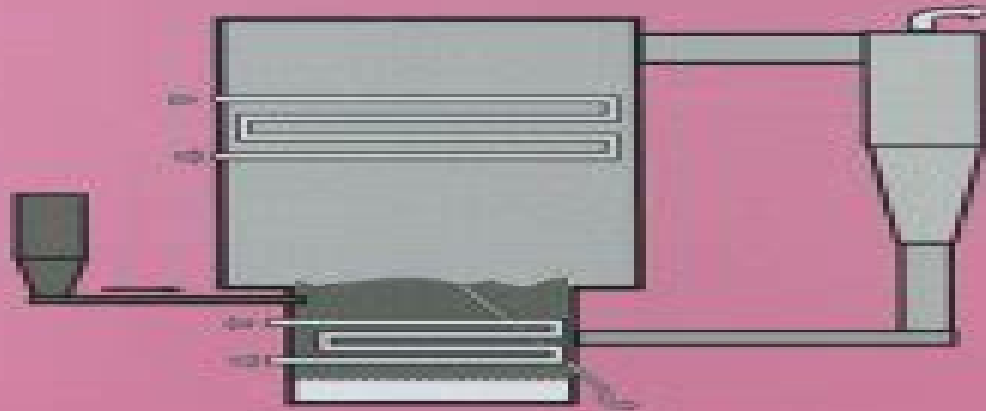


# Solid Fuels Combustion and Gasification

Modeling, Simulation, and  
Equipment Operation



**Marcio L. de Souza-Santos**

# Solid Fuels Combustion And Gasification Modeling Simulation And Equipment Operation

**Petr A. Nikrityuk, Bernd Meyer**



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Sundén,2008 Controlled fires are beneficial for the generation of heat and power while uncontrolled fires like fire incidents and wildfires are detrimental and can cause enormous material damage and human suffering This edited book presents the state of the art of modeling and numerical simulation of the important transport phenomena in fires It describes how computational procedures can be used in analysis and design of fire protection and fire safety Computational fluid dynamics turbulence modeling combustion soot formation thermal radiation modeling are demonstrated and applied to pool fires flame spread wildfires fires in buildings and other examples

**Pretreatment Techniques for Biofuels and Biorefineries** Zhen Fang,2013-01-04 This book includes 19 chapters contributed by the world s leading experts on pretreatment methods for biomass It extensively covers the different types of biomass e g molasses sugar beet pulp cheese whey sugarcane residues palm waste vegetable oil straws stalks and wood various pretreatment approaches e g physical thermal chemical physicochemical and biological and methods that show the subsequent production of biofuels and chemicals such as sugars ethanol extracellular polysaccharides biodiesel gas and oil In addition to traditional methods such as steam hot water hydrothermal diluted acid organosolv ozonolysis sulfite milling fungal and bacterial microwave ultrasonic plasma torrefaction pelletization gasification including biogas and liquefaction pretreatments it also introduces and discusses novel techniques such as nano and solid catalysts organic electrolyte solutions and ionic liquids This book offers a review of state of the art research and provides guidance for the future paths of developing pretreatment techniques of biomass for biofuels especially in the fields of biotechnology microbiology chemistry materials science and engineering It intends to provide a systematic introduction of pretreatment techniques It is an accessible reference work for students researchers academicians and industrialists in biorefineries Zhen Fang is a Professor of Bioenergy and the leader and founder of the biomass group at the Xishuangbanna Tropical Botanical Garden of the Chinese Academy of Sciences He is also an adjunct full Professor of Life Sciences at the University of Science and Technology of China

*Concise Handbook of Waste Treatment Technologies* Saleh S. Al Arni,Mahmoud M. Elwaheidi,2020-12-08 With specialized and succinct coverage Concise Handbook of Waste Treatment Technologies provides readers with an integrated overview of various waste treatment technologies and related issues Rather than dealing separately with each type of waste material the book summarizes important waste treatments from a holistic perspective Presents a comprehensive review of the most used terminologies and methods in waste management Explains how waste materials are treated and managed in a manner compatible with engineering health safety and environmental regulations and laws Includes discussion of basic solid liquid and gaseous wastes Accessible to both specialists and non specialists This guidebook is written for early career professionals non specialists and specialists in environmental and chemical engineering and related disciplines seeking to understand proper waste and management and disposal techniques

**Sustainable Bioenergy Production** Lijun Wang,2014-04-18 Given the environmental concerns and declining availability of fossil fuels as well as the growing population worldwide it is essential to move toward a sustainable

bioenergy based economy However it is also imperative to address sustainability in the bioenergy industry in order to avoid depleting necessary biomass resources Sustainable Bioene

### **Handbook of Energy Management in Agriculture**

Amitava Rakshit,Asim Biswas,Deepranjan Sarkar,Vijay Singh Meena,Rahul Datta,2023-05-15 This handbook provides a holistic overview of different aspects of energy management in agriculture with an orientation to address the sustainable development goals It covers possible applications not only from a technical point of view but also from economic financial social regulatory and political viewpoints Agriculture is one of the most imperative sectors that contribute to the economy across different agro ecologies of the universe with energy inputs in each stage of production from making and applying chemicals to fueling tractors that lay seeds and harvest crops to electricity for animal housing facilities The majority of agricultural research has focused on the use of input production and productivity whereas rational energy budgeting and use remain an overlooked and likely underestimated segment ignored so far while formulating agro ecosystem framework Energy management study is a new frontier of agriculture and is challenging du to complex enterprises spatial temporal variability exposure to pollution and the predominant effect of the anthropogenic factor on ecology and environment But it is worth taking the challenge considering the important prerequisite role of energy for sustainable development which has been evidenced from increasing research in recent times Of recent origin there are critical in depth studies around the globe assessing the capture and flow of energy in the ecosystem which will help to develop a conceptual framework to incorporate this vital resource in the agriculture management template This book is a state of the art resource for a broad group of readers including a diversity of stakeholders and professionals in universities public energy institutions farmers and farming industry public health and other relevant institutions and the broader public as well

### **Handbook of Hydrogen Energy**

S.A. Sherif,D. Yogi Goswami,E.K. (Lee) Stefanakos,Aldo Steinfeld,2014-07-29 Can hydrogen and electricity supply all of the world s energy needs Handbook of Hydrogen Energy thoroughly explores the notion of a hydrogen economy and addresses this question The handbook considers hydrogen and electricity as a permanent energy system and provides factual information based on science The text focuses on a large cross section o

### **Nanobiotechnology for Green Environment**

Amit Kumar,Chhotu Ram,2021-03-04 The book examines environmental issues and their solutions with advancements in biotechnology and nanotechnology This book will focus on environmental friendly waste management wastewater treatment and utilization of wastes for energy As humanity is struggling for clean air water and even contaminant free food our society must ponder the condition of environment This book covers a variety of environmental issues and how they could be solved through innovations in science engineering and technology The authors examine the use of biotechnological methods to remediate wastewater toxic organic compounds and sludge management problems The topics include different research disciplines such as water and wastewater treatment solid waste management and utilization of wastes for energy This book will be useful for researchers students scientists and academicians who are working in multidisciplinary areas like

microbiology biotechnology nanotechnology to address environmental issues such as water and wastewater treatment solid waste management and energy resources Nanobiotechnology for Green Environment covers a variety of environmental issues and how they could be solved through innovations in science engineering and technology **Alternative Energy and Shale Gas Encyclopedia** Jay H. Lehr, Jack Keeley, 2016-04-06 A comprehensive depository of all information relating to the scientific and technological aspects of Shale Gas and Alternative Energy Conveniently arranged by energy type including Shale Gas Wind Geothermal Solar and Hydropower Perfect first stop reference for any scientist engineer or student looking for practical and applied energy information Emphasizes practical applications of existing technologies from design and maintenance to operating and troubleshooting of energy systems and equipment Features concise yet complete entries making it easy for users to find the required information quickly without the need to search through long articles

**Modeling of Processes and Reactors for Upgrading of Heavy Petroleum** Jorge Ancheyta, 2013-01-29 The worldwide petroleum industry is facing a dilemma the production level of heavy petroleum is higher than that of light petroleum Heavy crude oils possess high amounts of impurities sulfur nitrogen metals and asphaltenes as well as a high yield of residue with consequent low production of valuable distillates gasoline and diesel These **Calcium and Chemical Looping**

**Technology for Power Generation and Carbon Dioxide (CO<sub>2</sub>) Capture** Paul Fennell, Ben Anthony, 2015-05-21 Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide CO<sub>2</sub> Capture reviews the fundamental principles systems oxygen carriers and carbon dioxide carriers relevant to chemical looping and combustion Chapters review the market development economics and deployment of these systems also providing detailed information on the variety of materials and processes that will help to shape the future of CO<sub>2</sub> capture ready power plants Reviews the fundamental principles systems oxygen carriers and carbon dioxide carriers relevant to calcium and chemical looping Provides a lucid explanation of advanced concepts and developments in calcium and chemical looping high pressure systems and alternative CO<sub>2</sub> carriers Presents information on the market development economics and deployment of these systems *Biomass Chars: Elaboration, Characterization and Applications* Mejdi Jeguirim, Lionel Limousy, 2018-04-03 This book is a printed edition of the Special Issue Biomass Chars Elaboration Characterization and Applications that was published in Energies

12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering, 2015-07-14 25th European Symposium on Computer Aided Process Engineering contains the papers presented at the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Joint Event held in Copenhagen Denmark 31 May 4 June 2015 The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing based methods in process engineering This conference highlights the contributions of the PSE CAPE community towards the sustainability of modern society Contributors from academia and industry establish the core products of PSE CAPE define the new and changing

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**Gasification Processes** Petr A. Nikrityuk, Bernd Meyer, 2014-06-18 Bridging the gap between the well known technological description of gasification and the underlying theoretical understanding this book covers the latest numerical and semi empirical models describing interphase phenomena in high temperature conversion processes Consequently it focuses on the description of gas particle reaction systems by state of the art computational models in an integrated unified form Special attention is paid to understanding and modeling the interaction between individual coal particles and a surrounding hot gas including heterogeneous and homogeneous chemical reactions inside the particle on the particle interface and near the interface between the solid and gas phases While serving the needs of engineers involved in industrial research development and design in the field of gasification technologies this book s in depth coverage makes it equally ideal for young and established researchers in the fields of thermal sciences and chemical engineering with a focus on heterogeneous and homogeneous reactions

**Biomass as a Sustainable Energy Source for the Future** Wiebren de Jong, J. Ruud van Ommen, 2014-10-03 Focusing on the conversion of biomass into gas or liquid fuels the book covers physical pre treatment technologies thermal chemical and biochemical conversion technologies Details the latest biomass characterization techniques Explains the biochemical and thermochemical conversion processes Discusses the development of integrated biorefineries which are similar to petroleum refineries in concept covering such topics as reactor configurations and downstream processing Describes how to mitigate the environmental risks when using biomass as fuel Includes many problems small projects sample calculations and industrial application examples

**Waste Management and the Environment IV** M. Zamorano, 2008 This book brings together papers from the Fourth International Conference on Waste Management and the Environment and will be of interest to environmental engineers local authority representatives waste disposal experts research scientists in the area of waste management civil engineers and chemical engineers

Plastics and Environmental Sustainability Anthony L. Andrady, 2015-02-11 Survey s the issues typically raised in discussions of sustainability and plastics Discusses current issues not covered in detail previously such as ocean litter migration of additives into food products and the recovery of plastics Covers post consumer fate of plastics on land and in the oceans highlighting the environmental impacts of disposal methods Details toxicity of plastics particularly as it applies to human health Presents a clear analysis of the key plastic related issues including numerous citations of the research base

that supports and contradicts the popularly held notions



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