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Novel Combustion Concepts for Sustainable Energy Development

 Springer

Novel Combustion Concepts For Sustainable Energy Development

**Oleg Anatolyevich
Gorbachev, Xiaoguang Gao, Bo Li**



Novel Combustion Concepts For Sustainable Energy Development:

Novel Combustion Concepts for Sustainable Energy Development Avinash K Agarwal,Ashok Pandey,Ashwani K. Gupta,Suresh K. Aggarwal,Abhijit Kushari,2014-12-19 This book comprises research studies of novel work on combustion for sustainable energy development It offers an insight into a few viable novel technologies for improved efficient and sustainable utilization of combustion based energy production using both fossil and bio fuels Special emphasis is placed on micro scale combustion systems that offer new challenges and opportunities The book is divided into five sections with chapters from 3 4 leading experts forming the core of each section The book should prove useful to a variety of readers including students researchers and professionals

Proceedings of 10th International Conference on Recent Advances in Civil Aviation Oleg Anatolyevich Gorbachev,Xiaoguang Gao,Bo Li,2022-10-19 The volume comprises proceedings of the 10th International Conference on Recent Advances in Civil Aviation The contents focus on air traffic control and management quality control and reliability improvement of radio equipment and avionics designing and testing aircraft assemblies and mechanisms reliability improvement of aircraft management systems aviation enterprise management etc There is also emphasis on the current problems and prospects for development of unmanned aircraft systems This volume will be beneficial to researchers practitioners and policy makers alike

Advances in IC Engines and Combustion Technology Ashwani K. Gupta,Hukam C. Mongia,Pankaj Chandna,Gulshan Sachdeva,2020-08-18 This book comprises select peer reviewed proceedings of the 26th National Conference on IC Engines and Combustion NCICEC 2019 which was organised by the Department of Mechanical Engineering National Institute of Technology Kurukshetra under the aegis of The Combustion Institute Indian Section CIIS The book covers latest research and developments in the areas of combustion and propulsion exhaust emissions gas turbines hybrid vehicles IC engines and alternative fuels The contents include theoretical and numerical tools applied to a wide range of combustion problems and also discusses their applications This book can be a good reference for engineers educators and researchers working in the area of IC engines and combustion

Biomass Hydrolyzing Enzymes Reeta Rani Singhania,Anil Kumar Patel,Héctor A. Ruiz,Ashok Pandey,2024-05-06 This reference book provides advanced knowledge about lignocellulosic biomass production and its application in biomass hydrolysis Lignocellulosic biomass is the most abundant ubiquitous and renewable raw material in the world Though biomass can be deconstructed by other means biological ways through enzymes are eco friendly and sustainable Biomass Hydrolyzing Enzymes Basics Advancements and Applications discusses the different enzymes used for degrading biomass into its monomeric components It covers important topics like biorefineries hydrolysis of algal mass kinetic modelling for hydrolysis inhibitory effects and more Key Features Highlights recent developments in biorefineries specific enzymes inhibitor tolerance and enhanced efficiencies Provides details on various kinds of biomass hydrolysis including algal biomass Includes the best practices for getting economic and efficient high conversions of biomass Covers

strategies to be adopted for increasing the production of highly efficient enzymes Explores the advancements in lignocellulosic biomass hydrolysis The book is suitable for researchers and students in biotechnology applied microbiology and environmental sciences

Combustion for Power Generation and Transportation Avinash Kumar Agarwal, Santanu De, Ashok Pandey, Akhilendra Pratap Singh, 2017-01-20 This research monograph presents both fundamental science and applied innovations on several key and emerging technologies involving fossil and alternate fuel utilization in power and transport sectors from renowned experts in the field Some of the topics covered include autoignition in laminar and turbulent nonpremixed flames Langevin simulation of turbulent combustion lean blowout LBO prediction through symbolic time series analysis lasers and optical diagnostics for next generation IC engine development exergy destruction study on small DI diesel engine and gasoline direct injection The book includes a chapter on carbon sequestration and optimization of enhanced oil and gas recovery The contents of this book will be useful to researchers and professionals working on all aspects on combustion

Energy and Sustainability VII C.A. Brebbia, 2017-12-11 Containing papers presented at the 7th International Conference on Energy and Sustainability this volume includes collaborative research between different disciplines including materials energy networks new energy resources storage solutions waste to energy systems smart grids and many other related subjects Energy production and distribution matters as well as the need to respond to the modern world's dependency on conventional fuels are topics of growing importance The use of fossil fuels has generated an increasing amount of interest in renewable energy resources and the search for maintainable energy policies Energy policies and management are of primary importance to achieve the development of sustainability and need to be consistent with recent advances in energy production and distribution Challenges lie as much in the conversion from renewable energies such as wind and solar to useful forms like electricity heat and fuel at an acceptable cost including environmental damage as in the integration of these resources into an existing infrastructure A range of topics are covered including Energy policies Renewable energy resources Sustainable energy production Environmental risk management Green buildings Energy storage Energy management Biomass and biofuels Waste to energy Processing of oil and gas CO₂ capturing and management Pipelines Energy efficiency Smart grids Energy and transport Case studies

Comprehensive Energy Systems Ibrahim Dincer, 2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by

leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language

Current Developments in Biotechnology and Bioengineering Sunita Varjani,Ashok Pandey,Edgard Gnansounou,Samir Kumar Khanal,Sindhu Raveendran,2020-01-23 Current Developments in Biotechnology and Bioengineering Resource Recovery from Wastes includes the latest and innovative research and technological developments in the biotechnology and bioengineering pertaining to various resource s recovery from wastes The contents are organized into two broader sections covering resource recovery from industrial wastewater and resource recovery from solid wastes Sections cover energy bioproducts nutrients municipal food wastes electronic wastes agricultural waste and others The state of the art situation potential advantages and limitations are also provided along with strategies to overcome limitations This book is a useful guide into research demands in solid and liquid waste treatment and management for environmental economic sustainability Provides state of art information and applications on microbiological and biotechnological interventions for resource recovery Covers municipal food wastes electronic wastes and agricultural wastes Reviews current information relating to bioremediation Contains recent information clearly illustrated with tables figures and pictures Outlines different technological and biological aspects of resource recovery from industrial waste and effluents

Biotechnology of Microbial Enzymes Goutam Brahmachari,2023-01-20 Biotechnology of Microbial Enzymes Production Biocatalysis and Industrial Applications Second Edition provides a complete survey of the latest innovations on microbial enzymes highlighting biotechnological advances in their production and purification along with information on successful applications as biocatalysts in several chemical and industrial processes under mild and green conditions The application of recombinant DNA technology within industrial fermentation and the production of enzymes over the last three decades have produced a host of useful chemical and biochemical substances The power of these technologies results in novel transformations better enzymes a wide variety of applications and the unprecedented development of biocatalysts through the ongoing integration of molecular biology methodology all of which is covered insightfully and in depth within the book This fully revised second edition is updated to address the latest research developments and applications in the field from microbial enzymes recently applied in drug discovery to penicillin biosynthetic enzymes and penicillin acylase xylose reductase and microbial enzymes used in antitubercular drug design Across the chapters the use of microbial enzymes in sustainable development and production processes is fully considered with recent successes and ongoing challenges highlighted Explores advances in microbial enzymes from basic science through application in multiple industry sectors Includes up to date discussions of metabolic pathway engineering metagenomic screening microbial genomes extremophiles rational design directed evolution and more Provides a holistic approach to the research of microbial enzymes and their use in sustainable processes and innovation Features all new chapters discussing microbial enzyme classes of growing interest as

well as enzymes recently applied in drug discovery and other applications

Properties and Characterization of Modern Materials Andreas Öchsner, Holm Altenbach, 2016-07-30 This book focuses on robust characterization and prediction methods for materials in technical applications as well as the materials safety features during operation In particular it presents methods for reliably predicting material properties an aspect that is becoming increasingly important as engineering materials are pushed closer and closer to their limits to boost the performance of machines and structures To increase their engineering value components are now designed under the consideration of their multiphysical properties and functions which requires much more intensive investigation and characterization of these materials The materials covered in this monograph range from metal based groups such as lightweight alloys to advanced high strength steels and modern titanium alloys Furthermore a wide range of polymers and composite materials e g with micro and nanoparticles or fibres is covered The book explores methods for property prediction from classical mechanical characterization related fields of application for example from wear creep fatigue and crack growth to specific surface properties to dielectric and electrochemical values As in all fields of modern engineering the process is often accompanied by numerical simulation and optimization

Thermoacoustic Instability R. I. Sujith, Samadhan A. Pawar, 2021-12-14 This book systematically presents the consolidated findings of the phenomenon of self organization observed during the onset of thermoacoustic instability using approaches from dynamical systems and complex systems theory Over the last decade several complex dynamical states beyond limit cycle oscillations such as quasiperiodicity frequency locking period n chaos strange non chaos and intermittency have been discovered in thermoacoustic systems operated in laminar and turbulent flow regimes During the onset of thermoacoustic instability in turbulent systems an ordered acoustic field and large coherent vortices emerge from the background of turbulent combustion This emergence of order from disorder in both temporal and spatiotemporal dynamics is explored in the contexts of synchronization pattern formation collective interaction multifractality and complex networks For the past six decades the spontaneous emergence of large amplitude self sustained tonal oscillations in confined combustion systems characterized as thermoacoustic instability has remained one of the most challenging areas of research The presence of such instabilities continues to hinder the development and deployment of high performance combustion systems used in power generation and propulsion applications Even with the advent of sophisticated measurement techniques to aid experimental investigations and vast improvements in computational power necessary to capture flow physics in high fidelity simulations conventional reductionist approaches have not succeeded in explaining the plethora of dynamical behaviors and the associated complexities that arise in practical combustion systems As a result models and theories based on such approaches are limited in their application to mitigate or evade thermoacoustic instabilities which continue to be among the biggest concerns for engine manufacturers today This book helps to overcome these limitations by providing appropriate methodologies to deal with nonlinear thermoacoustic oscillations and by developing control strategies that can mitigate and

forewarn thermoacoustic instabilities The book is also beneficial to scientists and engineers studying the occurrence of several other instabilities such as flow induced vibrations compressor surge aeroacoustics and aeroelastic instabilities in diverse fluid mechanical environments to graduate students who intend to apply dynamical systems and complex systems approach to their areas of research and to physicists who look for experimental applications of their theoretical findings on nonlinear and complex systems

Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include

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Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription **Physics of Turbulent Jet Ignition** Sayan Biswas,2018-05-03 This book focuses on developing strategies for ultra lean combustion of natural gas and hydrogen and contributes to the research on extending the lean flammability limit of hydrogen and air using a hot supersonic jet The author addresses experimental methods data analysis techniques and results throughout each chapter and Explains the fundamental mechanisms behind turbulent hot jet ignition using non dimensional analysis Explores ignition characteristics by impinging hot jet and multiple jets in relation to better controllability and lean combustion Explores how different instability modes interact with the acoustic modes of the combustion chamber This book provides a potential answer to some of the issues that arise from lean engine operation such as poor ignition engine misfire cycle to cycle variability combustion instability reduction in efficiency and an increase in unburned hydrocarbon emissions This thesis was submitted to and approved by Purdue University *Fundamentals of Low Emission Flameless Combustion and Its Applications* Seyed Ehsan Hosseini,2022-07-30 Fundamentals of Low Emission Flameless Combustion and Its Applications is a comprehensive reference on the flameless combustion mode and its industrial applications considering various types of fossil and alternative fuel Several experimental and numerical accomplishments on the fundamentals of state of the art flameless combustion is presented working to clarify the environmentally friendly aspects of this combustion mode Author Dr Hosseini presents the latest progresses in the field and highlights the most important achievements since invention including the fundamentals of thermodynamics heat transfer and chemical kinetics Also analyzed is fuel consumption reduction and the efficiency of the system emissions formation and the effect of the flameless mode on emission reduction This book provides a solid foundation for those in industry employing flameless combustion for energy conservation and the mitigation of pollutant emissions It will provide engineers and researchers in energy system engineering chemical engineering industrial engineers and environmental engineering with a reliable resource on flameless combustion and may also serve as a textbook for senior graduate students Presents the fundamentals of flameless combustion and covers advances since its invention Includes experimental and numerical investigations of flameless combustion Analyzes emission formation and highlights the effects of the flameless mode on emission reduction

Department of Energy's Fossil Energy Research and Development, and Clean Coal Technology Programs

United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Research and Development,1989 *Innovations in Sustainable Energy and Cleaner Environment* Ashwani K. Gupta,Ashoke De,Suresh K. Aggarwal,Abhijit Kushari,Akshai Runchal,2019-07-19 This book covers the state of the art advances in several areas of energy combustion power propulsion and environment focusing on the use of conventional and alternative fuels It presents novel developments in the areas of biofuels and value added products from various feedstock materials along with thermal management emission control and environmental issues from energy conversion Written by internationally renowned experts

the chapters in this volume cover the latest fundamental and applied research innovations on cleaner energy utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels The book will be useful as a ready reference for managers and practicing and research engineers as well as graduate students and research organizations and institutions

Economics of Renewable Energy Yoram Krozer,2022-02-21 The book provides a comprehensive review of renewable energy from an economic perspective throughout the last two hundred years starting from traditional renewable energy based on bio and hydro energy The focus is on modern renewable energy based on geothermal wind and solar energy It emerged when innovative entrepreneurs captured opportunities for valuable energy services As the services with renewable energy expanded the costs of technologies decreased entailing global commercialisation This enables larger access to energy and emission reduction of carbon dioxide but also causes larger differences in the energy resources across countries which impedes international policies That optimistic viewpoint on the shift to the global low carbon economy is largely based on statistical data about purchasing power energy consumption and businesses and valuable energy services in many countries on all continents The data are presented in 70 tables graphs and figures most of them original Interpretation of the data are useful in support of decisions making about sustainable development in civil society businesses and policy makers as well as for the verifications of scholarly hypotheses and projections in energy and climate policies

Selected Papers from SDEWES 2017: The 12th Conference on Sustainable Development of Energy, Water and Environment Systems Francesco Calise,2019-02-04 This book is a printed edition of the Special Issue Selected Papers from SDEWES 2017 The 12th Conference on Sustainable Development of Energy Water and Environment Systems that was published in Energies

Sensors for Automotive and Aerospace Applications Shantanu Bhattacharya,Avinash Kumar Agarwal,Om Prakash,Shailendra Singh,2018-11-01 This volume covers the various sensors related to automotive and aerospace sectors discussing their properties as well as how they are realized calibrated and deployed Written by experts in the field it provides a ready reference to product developers researchers and students working on sensor design and fabrication and provides perspective on both current and future research

Approaches for Clean Combustion in Gas Turbines Medhat A. Nemitallah,Ahmed A. Abdelhafez,Mohamed A. Habib,2020-03-24 This book focuses on the development of novel combustion approaches and burner designs for clean power generation in gas turbines It shows the reader how to control the release of pollutants to the environment in an effort to reduce global warming After an introduction to global warming issues and clean power production for gas turbine applications subsequent chapters address premixed combustion burner designs for clean power generation gas turbine performance and insights on gas turbine operability Given its scope the book can be used as a textbook for graduate level courses on clean combustion or as a reference book to accompany compact courses for mechanical engineers and young researchers around the world

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