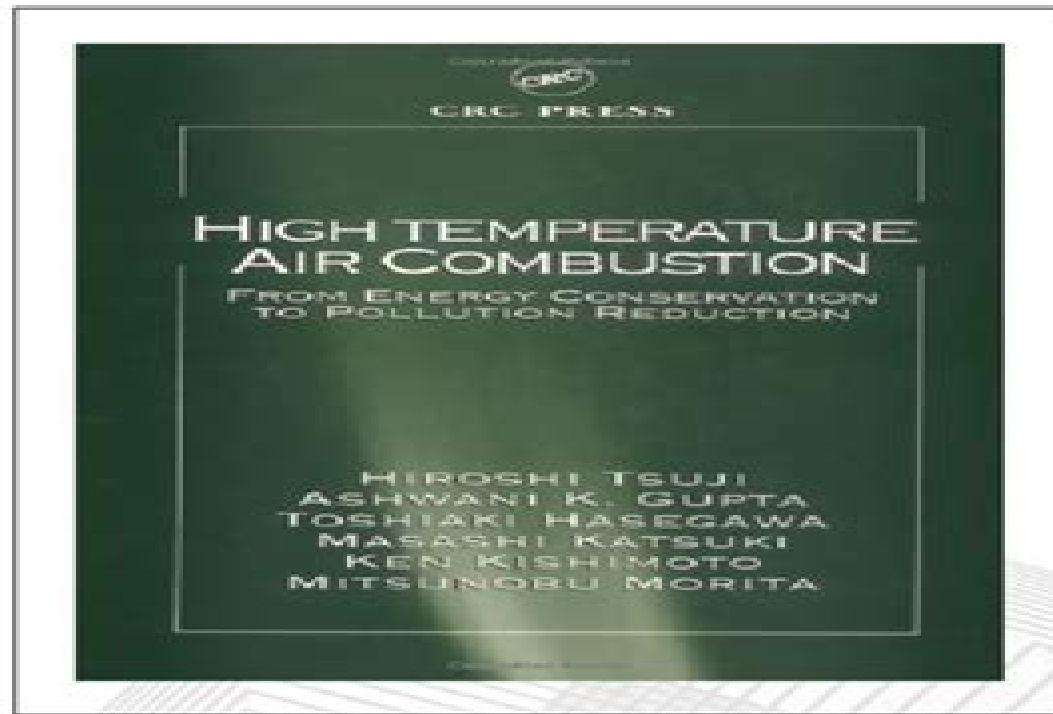


High temperature air combustion from energy
conservation to pollution reduction 1st Edition
Hiroshi Tsuji



High Temperature Air Combustion From Energy Conservation To Pollution Reduction

**Ashwani K. Gupta, Hukam C.
Mongia, Pankaj Chandna, Gulshan
Sachdeva**



High Temperature Air Combustion From Energy Conservation To Pollution Reduction:

High Temperature Air Combustion Hiroshi Tsuji, Ashwani K. Gupta, Toshiaki Hasegawa, Masashi Katsuki, Ken Kishimoto, Mitsunobu Morita, 2002-12-03 Maximize efficiency and minimize pollution the breakthrough technology of high temperature air combustion HiTAC holds the potential to overcome the limitations of conventional combustion and allow engineers to finally meet this long standing imperative Research has shown that HiTAC technology can provide simultaneous reduction of CO₂ and nitric oxide emissions and reduce energy consumption for a specific process or requirement High Temperature Air Combustion From Energy Conservation to Pollution Reduction provides the first comprehensive exposition of the principles and practice of HiTAC With a careful balance of theory and practice it reviews the historical background clearly describes HiTAC combustion phenomena and shows how to simulate and apply the technology for significant energy savings reduced equipment size and lower emissions It offers design guidelines for high performance industrial furnaces presents field trials of practical furnaces and explores potential applications of HiTAC in other fields including the conversion of solid waste fuels to cleaner fuels stationary gas turbine engines internal combustion engines and other advanced energy to power conversion systems Developed through an intensive research project sponsored by the Japanese government HiTAC now promises to revolutionize our paradigm for using all kinds of fossil alternative waste and derived fuels for energy conversion and utilization in industry This book is your opportunity to understand its principles learn about the technology and begin to use it to the benefit of your application your company and the environment

High Temperature Air Combustion Hiroshi Tsuji, Ashwani K. Gupta, Toshiaki Hasegawa, Masashi Katsuki, Ken Kishimoto, Mitsunobu Morita, 2002-12-03 Maximize efficiency and minimize pollution the breakthrough technology of high temperature air combustion HiTAC holds the potential to overcome the limitations of conventional combustion and allow engineers to finally meet this long standing imperative Research has shown that HiTAC technology can provide simultaneous reduction of CO₂ and nitric oxide emissions and reduce energy consumption for a specific process or requirement High Temperature Air Combustion From Energy Conservation to Pollution Reduction provides the first comprehensive exposition of the principles and practice of HiTAC With a careful balance of theory and practice it reviews the historical background clearly describes HiTAC combustion phenomena and shows how to simulate and apply the technology for significant energy savings reduced equipment size and lower emissions It offers design guidelines for high performance industrial furnaces presents field trials of practical furnaces and explores potential applications of HiTAC in other fields including the conversion of solid waste fuels to cleaner fuels stationary gas turbine engines internal combustion engines and other advanced energy to power conversion systems Developed through an intensive research project sponsored by the Japanese government HiTAC now promises to revolutionize our paradigm for using all kinds of fossil alternative waste and derived fuels for energy conversion and utilization in industry This book is your opportunity to understand its principles learn about the technology and begin to use

it to the benefit of your application your company and the environment *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. **The Coen & Hamworthy Combustion Handbook** Stephen Londerville, Charles E. Baukal Jr., 2013-03-25 The rigorous treatment of combustion can be so complex that the kinetic variables, fluid turbulence factors, luminosity and other factors cannot be defined well enough to find realistic solutions. Simplifying the processes, *The Coen Hamworthy Combustion Handbook* provides practical guidance to help you make informed choices about fuels, burners and associated combustion equipment and to clearly understand the impacts of the many variables. Editors Stephen B. Londerville and Charles E. Baukal Jr., top combustion experts from John Zink Hamworthy Combustion and the Coen Company, supply a thorough state of the art overview of boiler burners that covers Coen Hamworthy and Todd brand boiler burners. A Refresher in Fundamentals and State of the Art Solutions for Combustion System Problems. Roughly divided into two parts, the book first reviews combustion engineering fundamentals. It then uses a building block approach to present specific computations and applications in industrial and utility combustion systems including those for Transport and introduction of fuel and air to a system. Safe monitoring of the combustion system. Control of flows and operational parameters. Design of a burner combustion chamber to achieve performance levels for emissions and heat transfer. Avoidance of excessive noise and vibration and the extension of equipment life under adverse conditions. Coverage includes units, fluids, chemistry and heat transfer as well as atomization, computational fluid dynamics, CFD, noise, auxiliary support equipment and the combustion of gaseous, liquid and solid fuels. Significant attention is also given to the formation, reduction and prediction of emissions from combustion systems. Each chapter builds from the simple to the more complex and contains a wealth of practical examples and full color photographs.

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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 *Renewable Energy for Sustainable Growth Assessment* Nayan Kumar,Prabhansu Prabhansu,2022-04-05 RENEWABLE ENERGY FOR SUSTAINABLE GROWTH ASSESSMENT Written and edited by a team of experts in the field this collection of papers reflects the most up to date and comprehensive current state of renewable energy for sustainable growth assessment and provides practical solutions for engineers and scientists Renewable energy resources RERs are gaining more attention in academia and industry as one of the preferred choices of sustainable energy conversion Due to global energy demand environmental impacts economic needs and social issues RERs are encouraged and even funded by many governments around the world Today researchers are facing numerous challenges as this field emerges and develops but at the same time new opportunities are waiting for RERs utilization in sustainable development all over the globe Efficient energy conversion of solar wind biomass fuel cells and other techniques are gaining more popularity and are the future of energy The present book cross pollinates recent advances in the study of renewable energy for sustainable growth Various applications of RERs modeling and performance analysis grid integration soft computing optimization artificial intelligence AI as well as machine and deep learning aspects of RERs are extensively covered Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library This outstanding new volume Assesses the current and future need for energy on a global scale and reviews the role of renewable energy Includes multiple chapters on biomass and bioenergy Also includes multiple chapters on solar energy and PVs Also includes chapters on fuel cells wind power and many other topics Covers the design and implementation of power electronics for energy systems Outlines best practices and the state of the art for renewable energy with regard to sustainability Audience Engineers scientists technicians managers students and faculty working in the field of renewable energy sustainability and power system *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 *The John Zink Hamworthy Combustion Handbook* Charles E. Baukal Jr., 2012-12-13 Despite the length of time it has been around its importance and vast amounts of research combustion is still far from being completely understood Environmental cost and fuel consumption issues add further complexity particularly in the process and power generation industries Dedicated to advancing the art and science of industrial combustion Clean Coal Technology and Sustainable Development Guangxi Yue, Shuiqing Li, 2016-07-30 This book gathers the proceedings of the 8th International Symposium on Coal Combustion The contributions reflect the latest research on coal quality and combustion techniques for pulverized coal combustion and fluidized bed combustion special issues regarding CO₂ capture CCS industrial applications etc aspects that are of great importance in promoting academic communications between related areas and the technical development of coal related fields The International Symposium on Coal Combustion ISCC sponsored and organized by Tsinghua University since 1987 has established itself as an important platform allowing scientists and engineers to exchange information and ideas on the science and technology of coal combustion and related issues and to forge new partnerships in the growing Chinese market Researchers in the fields of clean coal combustion carbon dioxide capture and storage coal chemical engineering energy engineering etc will greatly benefit from this book Guangxi Yue professor of the Department of Thermal Engineering in Tsinghua University Beijing China and a member of Chinese Academy of Engineering CAE Shuiqing Li professor of the Department of Thermal Engineering in Tsinghua University Beijing China Industrial Combustion Testing Charles E. Baukal, Jr., 2010-07-29 The first resource of its kind this work compiles all of the latest testing techniques to serve as a comprehensive resource for those conducting tests in the field of industrial combustion It serves the needs of practicing engineers technicians and researchers conducting experiments with industrial scale combustion equipment and it will save researchers endless hours searching the literature It includes numerous pictures figures graphs and tables as well as examples on how to apply the information It includes valuable information on advanced diagnostics burner and flare testing and testing in combustors including a variety of kilns furnaces and boilers **Thermal Engineering in Power Systems** Ryoichi Amano, Bengt Sundén, 2008 Research and development in thermal engineering for power systems are of significant

importance to many scientists who are engaged in research and design work in power related industries and laboratories. This book focuses on variety of research areas including Components of Compressor and Turbines that are used for both electric power systems and aero engines Fuel Cells Energy Conversion and Energy Reuse and Recycling Systems To be competitive in today's market power systems need to reduce the operating costs increase capacity factors and deal with many other tough issues Heat Transfer and fluid flow issues are of great significance and it is likely that a state of the art edited book with reference to power systems will make a contribution for design and R D engineers and the development towards sustainable energy systems

Lean Combustion Derek Dunn-Rankin, Peter Therkelsen, 2016-07-01 *Lean Combustion Technology and Control* Second Edition outlines and explains the latest advances in lean combustion technology and systems Combustion under sufficiently fuel lean conditions can have the desirable attributes of high efficiency and low emissions The book offers readers both the fundamentals and latest developments in how lean burn broadly defined can increase fuel economy and decrease emissions while still achieving desired power output and performance This volume brings together research and design of lean combustion systems across the technology spectrum in order to explore the state of the art in lean combustion Readers will learn about advances in the understanding of ultra lean fuel mixtures and how new types of burners and approaches to managing heat flow can reduce problems often found with lean combustion such as slow difficult ignition and frequent flame extinction This book offers abundant references and examples of real world applications New to this edition are significantly revised chapters on IC engines and stability oscillations and new case studies and examples Written by a team of experts this contributed reference book aims to teach its reader to maximize efficiency and minimize both economic and environmental costs Presents a comprehensive collection of lean burn technology across potential applications allowing readers to compare and contrast similarities and differences Provides an extensive update on IC engines including compression ignition diesel spark ignition and homogeneous charge compression ignition HCCI Includes an extensive revision to the Stability Oscillations chapter Includes use of alternative fuels such as biogas and hydrogen for relevant technologies Covers new developments in lean combustion using high levels of pre heat and heat recirculating burners as well as the active control of lean combustion instabilities

The Slipcover for The John Zink Hamworthy Combustion Handbook Charles E. Baukal Jr., 2018-10-03 Despite the length of time it has been around its importance and vast amounts of research combustion is still far from being completely understood Issues regarding the environment cost and fuel consumption add further complexity particularly in the process and power generation industries Dedicated to advancing the art and science of industry

Advances in IC Engines and Combustion Technology Ashwani K. Gupta, Hukam C. Mongia, Pankaj Chandra, 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

Modeling, Analysis and Optimization of Process and Energy Systems F. Carl Knopf, 2011-12-14 Energy costs impact the profitability of virtually all industrial processes Stressing how plants use power and how that power is actually generated this book provides a clear and simple way to understand the energy usage in various processes as well as methods for optimizing these processes using practical hands on simulations and a unique approach that details solved problems utilizing actual plant data Invaluable information offers a complete energy saving approach essential for both the chemical and mechanical engineering curricula as well as for practicing engineers

Liutex and Third Generation of Vortex Definition and Identification Chaoqun Liu, Yiqian Wang, 2021-07-26 This book collects papers presented in the Invited Workshop Liutex and Third Generation of Vortex Definition and Identification for Turbulence from CHAOS2020 June 9 12 2020 which was held online as a virtual conference Liutex is a new physical quantity introduced by Prof Chaoqun Liu of the University of Texas at Arlington It is a vector and could give a unique and accurate mathematical definition for fluid rotation or vortex The papers in this volume include some Liutex theories and many applications in hydrodynamics aerodynamics and thermal dynamics including turbine machinery As vortex exists everywhere in the universe a mathematical definition of vortex or Liutex will play a critical role in scientific research There is almost no place without vortex in fluid dynamics As a projection the Liutex theory will play an important role on the investigations of the vortex dynamics in hydrodynamics aerodynamics thermodynamics oceanography meteorology metallurgy civil engineering astronomy biology etc and to the researches of the generation sustenance modelling and controlling of turbulence

Ignitability and Explosibility of Gases and Vapors Tingguang Ma, 2015-04-28 The book provides a systematic view on flammability and a collection of solved engineering problems in the fields of dilution and purge mine gas safety clean burning safety and gas suppression modeling For the first time fundamental principles of energy conservation are used to develop theoretical flammability diagrams and are then explored to understand various safety related mixing problems This provides the basis for a fully analytical solution to any flammability problem Instead of the traditional view that flammability is a fundamental material property here flammability is discovered to be a result of the explosibility of air and the ignitability of fuel or a process property By exploring the more fundamental concepts of explosibility and ignitability the safety targets of dilution and purge can be better defined and utilized for guiding safe operations in process safety This book provides various engineering approaches to mixture flammability benefiting not only the safety students but also field operators as a useful resource for the safe handling of flammable gases and liquids It will be useful to anyone who worries about the ignition potential of a flammable mixture

Renewable Energy Sources:

Engineering, Technology, Innovation Marek Wróbel, Marcin Jewiarz, Andrzej Szlęk, 2019-07-16 This book presents peer reviewed papers based on the oral and poster presentations during the 5th International Conference on Renewable Energy Sources which was held from June 20 to 22 2018 in Krynica Poland The scope of the conference included a wide range of topics in renewable energy technology with a major focus on biomass solar energy and geothermal energy but also extending to heat pumps fuel cells wind energy energy storage and the modelling and optimization of renewable energy systems This edition of the conference had a special focus on the role of renewable energy in the reduction of air pollution in the Eastern European region Traditionally this conference is a unique occasion for gathering Polish and international researchers perspectives on renewable energy sources and furthermore of balancing them against governmental policy considerations Accordingly the conference offered also panels to discuss best practices and solutions with local entrepreneurs and federal government bodies The meeting attracts not only scientist but also industry representatives as well as local and federal government personnel In 2018 the conference was organized by the University of Agriculture in Krakow in cooperation with AGH University of Science and Technology Krakow University of ilina Silesian University of Technology International Commission of Agricultural and Biosystems Engineering CIGR and Polish Society of Agricultural Engineering Honorary auspices were given by the Ministry of Science and Higher Education Republic of Poland Rector of the University of Agriculture in Krakow and Rector of the AGH University of Science and Technology 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-4900 - 03-4949 ,2003 **Advanced Power**

Plant Materials, Design and Technology Dermot Roddy, 2010-05-24 Fossil fuel power plants account for the majority of worldwide power generation Increasing global energy demands coupled with issues of ageing and inefficient power plants have led to new power plant construction programmes As cheaper fossil fuel resources are exhausted and emissions criteria are tightened utilities are turning to power plants designed with performance in mind to satisfy requirements for improved capacity efficiency and environmental characteristics Advanced power plant materials design and technology provides a comprehensive reference on the state of the art of gas fired and coal fired power plants their major components and performance improvement options Part one critically reviews advanced power plant designs which target both higher efficiency and flexible operation including reviews of combined cycle technology and materials performance issues Part two reviews major plant components for improved operation including advanced membrane technology for both hydrogen H₂ and carbon dioxide CO₂ separation as well as flue gas handling technologies for improved emissions control of sulphur oxides SO_x nitrogen oxides NO_x mercury ash and particulates The section concludes with coverage of high temperature sensors and monitoring and control technology that are essential to power plant operation and performance optimisation Part three begins with coverage of low rank coal upgrading and biomass resource utilisation for improved power plant fuel flexibility Routes to improve the environmental impact are also reviewed with chapters detailing the integration of underground coal

gasification and the application of carbon dioxide CO₂ capture and storage Finally improved generation performance is reviewed with coverage of syngas and hydrogen H₂ production from fossil fuel feedstocks With its distinguished international team of contributors Advanced power plant materials design and technology is a standard reference for all power plant engineers and operators as well as to academics and researchers in this field Provides a comprehensive reference on the state of the art gas fired and coal fired power plants their major components and performance improvement options Examines major plant components for improved operation as well as flue gas handling technologies for improved emissions control Routes to improve environmental impact are discussed with chapters detailing the integration of underground coal gasification

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