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Advances in Bioprocess Engineering and Technology Frontiers E-books

The first invention and development of the functional diesel engine was in 1897 by Rudolf Christian Karl Diesel, German inventor. Until now, this invention has been superseded by the development of very productive engines and mechanics. Current diesel engines are well known to many people around the world and serve in innumerable applications for various types of public transport, light and heavy duty transportation, for automotive, railway, maritime or aviation transportation, in different harsh environments, in construction, in mining, and for diverse industries. The light duty or heavy-duty diesel engines have some drawbacks. One of the main concerns is connected with exhaust emissions generated by diesel engines. This book discusses the generation of diesel exhaust emissions and mitigations, performance, emissions and combustion evaluations, utilisation of alternative biodiesel fuels, comparison of different techniques for measurement of soot and diesel particulate matter, analyses of diesel particulate matter flow pattern, and chemical composition of diesel particulate matter. The main concern of this book is to expand knowledge of readers and bring together the latest research findings related to diesel engine exhaust emissions. Engine Emissions Springer Nature

This book presents select papers from the International Conference on Energy, Material Sciences and Mechanical Engineering (EMSME) - 2020. The book covers the three core areas of energy, material sciences and mechanical engineering. The topics covered include non-conventional energy resources, energy harvesting, polymers, composites, 2D materials, systems engineering, materials engineering, micro-machining, renewable energy, industrial engineering and additive manufacturing. This book will be useful to researchers and professionals working in the areas of mechanical and industrial engineering, materials applications, and energy technology.

Air Pollution and Control Springer

Now in its fourth edition, this textbook remains the indispensable text to guide readers through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice aids in the understanding of internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. This textbook is aimed at third year undergraduate or postgraduate students on mechanical or automotive engineering degrees. New to this Edition: - Fully updated for changes in technology in this fast-moving area - New material on direct injection spark engines, supercharging and renewable fuels - Solutions manual online for lecturers Handbook of Clean Energy Systems, 6 Volume Set Alpha Science International, Limited

This book provides a comparative analysis of both diesel and gasoline engine particulates, and also of the emissions resulting from the use of alternative fuels. Written by respected experts, it offers comprehensive insights into motor vehicle particulates, their formation, composition, location, measurement, characterisation and toxicology. It also addresses exhaust-gas treatment and legal, measurement-related and technological advancements concerning emissions. The book will serve as a valuable resource for academic researchers and professional automotive engineers alike.

Advances in Mechanical and Materials Technology Springer

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: Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems;

Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. 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.

Engine Modeling and Simulation Springer Nature

This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems, which was held in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

IC Engines BoD – Books on Demand

IC Engines Engine Emissions Engine Emissions Alpha Science International, Limited

Introduction to Internal Combustion Engines Springer

This book focuses on the simulation and modeling of internal combustion engines. The contents include various aspects of diesel and gasoline engine modeling and simulation such as spray, combustion, ignition, in-cylinder phenomena, emissions, exhaust heat recovery. It also explored engine models and analysis of cylinder bore piston stresses and temperature effects. This book includes recent literature and focuses on current modeling and simulation trends for internal combustion engines. Readers will gain knowledge about engine process simulation and modeling, helpful for the development of efficient and emission-free engines. A few chapters highlight the review of state-of-the-art models for spray, combustion, and emissions, focusing on the theory, models, and their applications from an engine point of view. This volume would be of interest to professionals, post-graduate students involved in alternative fuels, IC engines, engine modeling and simulation, and environmental research.

Gynaecology: Evidence-Based Algorithms ORIC Publications

This book introduces the reader to fundamentals of engine combustion processes and pollutant formation Combustion thermodynamics, conceptual and thermodynamic engine combustion models, fluid motion in the cylinder, the conventional and advanced combustion systems such as for DISC, CAI, and HCCI engines are

discussed. For a wider coverage on the subject, emission measurement alternative propulsion systems are included in this text. Laser based and other combustion diagnostic techniques are outlined to introduce readers to modern combustion research methods. The book attempts to present theoretical aspects and the practices including the latest developments in engine and emission control technology.

Proceedings of the third International Conference on Automotive and Fuel Technology Allied Publishers

This book discusses the maintenance aspect of rotating machines, which it addresses through a collection of contributions. Sharing the "hands-on" views of experienced engineers on the aspect of maintenance for rotating machines, it offers a valuable reference guide for practicing engineers in the related industries, providing them a glimpse of some of the most common problems associated with rotating machines and equipment in the field, and helping them achieve maximum performance efficiency and high machine availability.

Information and Communication Technology for Intelligent Systems Springer

"Engine Emissions: Pollutant Formation and Advances in Control Technology provides an up to date reference to academics and professionals on emissions from SI and CI engine powered vehicles. - In this text, mechanism of formation of engine emissions, effect of engine design and operation variables, world wide vehicle emission standards and emission measurement and test procedures are presented. Advances in emission control technology that have taken place from those used initially and up to the ones employed on the present day vehicles meeting the stringent emission regulations e.g., Euro 4, ULEV, SULEV standards are discussed. - Newer developments on exhaust aftertreatment such as HC adsorber systems, NO_x traps and other de-NO_x catalysts, and advanced engines like GDI and HCCI engines are covered in the book."--Jacket.

John Wiley & Sons

This book presents the select peer-reviewed proceedings of the International Conference on Advances in Bioprocess Engineering and Technology (ICABET 2020). The book covers all aspects of bioprocesses, especially related to fermentation technology, food technology, environmental biotechnology, and sustainable energy. Along with this primary theme, the focus is on recent advances in bioprocessing research such as biosensors, micro-reactors, novel separation techniques, bioprocess control, bio-safety, advanced techniques for waste to wealth generation, and nanobiotechnology. This contents are divided according to the major themes of the conference: (i) Fermentation Technology and Bioreactor, (ii) Food Pharmaceuticals and Health care, (iii) Environment and Agriculture, and (iv) Sustainable Energy. This book is intended to help students, researchers, and industry professionals acquire knowledge on innovative technologies and recent advancements in the field of bioprocess engineering and technology.

Engine Exhaust Particulates World Bank Publications

These conference proceedings provide a comprehensive overview of and in-depth technical information on all possible bioenergy resources (solid, liquid, and gaseous), including cutting-edge themes such as advanced fuels and biogas. The book includes current state-of-the-art topics ranging from feedstocks and cost-effective conversion processes to biofuels economic analysis and environmental policy, and features case studies and quizzes for each section derived from the implementation of actual hands-on biofuel projects to aid learning. It offers readers a starting point on this challenging and exciting path. The central

concepts are defined and explained in the context of process applications under various topics. By focussing on the pertinent fundamental principles in the environment and energy sciences and by repeatedly emphasizing the importance of their correlation, it offers a strong foundation for future study and practice. Learning about fundamental properties and mechanisms on an ongoing basis is absolutely essential for long-term professional viability in a technically vibrant area such as nanotechnology. The book has been written for undergraduate and graduate students in chemical, energy and environment engineering. However, selected sections can provide the basis for courses in civil, mechanical or electrical engineering. It includes a self-contained presentation of the key concepts of energy resources, solar thermal and photovoltaic systems, nuclear energy, biomass conversion technology and agricultural-waste processing. Throughout it interweaves descriptive material on sustainable development, clean coal technology, green technology, solid-waste management and lifecycle assessments. It offers an introduction to these topics rather than comprehensive coverage of the themes and their in-depth fundamentals.

Advances in IC Engines and Combustion Technology Springer

This book deals with in-cylinder pressure measurement and its post-processing for combustion quality analysis of conventional and advanced reciprocating engines. It offers insight into knocking and combustion stability analysis techniques and algorithms in SI, CI, and LTC engines, and places special emphasis on the digital signal processing of in-cylinder pressure signal for online and offline applications. The text gives a detailed description on sensors for combustion measurement, data acquisition, and methods for estimation of performance and combustion parameters. The information provided in this book enhances readers' basic knowledge of engine combustion diagnostics and serves as a comprehensive, ready reference for a broad audience including graduate students, course instructors, researchers, and practicing engineers in the automotive, oil and other industries concerned with internal combustion engines.

IC Engines Bloomsbury Publishing

Contributions by Surhid Gautam and Lit-Mian Chan. This book presents a state-of-the art review of vehicle emission standards and regulations and provides a synthesis of worldwide experience with vehicle emission control technologies and their applications in both industrial and developing countries. Topics covered include: * The two principal international systems of vehicle emission standards: those of North America and Europe * Test procedures used to verify compliance with emissions standards and to estimate actual emissions * Engine and aftertreatment technologies that have been developed to enable new vehicles to comply with emission standards, as well as the cost and other impacts of these technologies * An evaluation of measures for controlling emissions from in-use vehicles * The role of fuels in reducing vehicle emissions, the benefits that could be gained by reformulating conventional gasoline and diesel fuels, the potential benefits of alternative cleaner fuels, and the prospects for using hydrogen and electric power to run motor vehicles with ultra-low or zero emissions. This book is the first in a series of publications on vehicle-related pollution and control measures prepared by the World Bank in collaboration with the United Nations Environment Programme to underpin the Bank's overall objective of promoting transport that is environmentally sustainable and least damaging to human health and welfare.

Biodiesel Science and Technology Springer Nature

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.

JOURNAL OF SCIENCE AND ENGINEERING Springer Nature

This text, by a leading authority in the field, presents a fundamental and factual development of the science and engineering underlying the design of combustion engines and turbines. An extensive illustration program supports the concepts and theories discussed.

2nd International Symposium on Fuels and Lubricants (Vol I)

MDPI

Biosensors have been employed for numerous applications from medical diagnosis, environmental monitoring, pharmaceutical analysis, food quality testing to defence and security purposes. Their development encompasses chemistry, physics, materials science, nanotechnology, and engineering. Being at the intersection of these multiple disciplines, this book is suitable for academic, clinical, and commercial researchers, as well as graduate students. This book reviews the latest studies and developments in the use of a range of biosensor platforms for the analysis of viral infections.

Introduction to Diesel Emissions Springer

This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice. The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place in Riga, Latvia on October 18 – 21, 2017. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering and data security issues, as well as practical problems in technical systems, such as transportation, and telecommunications.

FUNDAMENTALS OF INTERNAL COMBUSTION

ENGINES Allied Publishers

Provides evidence-based guidelines in schematic flowcharts, representing a step-by-step method of solving clinical problems in gynaecology.