

Mechanical Engineering Series

Sara McAllister  
Jyh-Yuan Chen  
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# Fundamentals of Combustion Processes

 Springer

# Fundamentals Of Combustion Processes Mechanical Engineering Series

**Konstantin V. Frolov, Oleg N.  
Favorsky, R.A. Chaplin and Christos  
Frangopoulos**

## **Fundamentals Of Combustion Processes Mechanical Engineering Series:**

*Fundamentals of Combustion Processes* Sara McAllister, Jyh-Yuan Chen, A. Carlos Fernandez-Pello, 2011-05-10

Fundamentals of Combustion Processes is designed as a textbook for an upper division undergraduate and graduate level combustion course in mechanical engineering. The authors focus on the fundamental theory of combustion and provide a simplified discussion of basic combustion parameters and processes such as thermodynamics, chemical kinetics, ignition, diffusion, and pre-mixed flames. The text includes exploration of applications, example exercises, suggested homework problems, and videos of laboratory demonstrations. Advances in Internal Combustion Engines and Fuel Technologies Hoon Kiat Ng, 2013-03-20. This book highlights the important need for more efficient and environmentally sound combustion technologies that utilise renewable fuels to be continuously developed and adopted. The central theme here is two-fold: internal combustion engines and fuel solutions for combustion systems. Internal combustion engines remain as the main propulsion system used for ground transportation, and the number of successful developments achieved in recent years is as varied as the new design concepts introduced. It is therefore timely that key advances in engine technologies are organised appropriately so that the fundamental processes, applications, insights, and identification of future development can be consolidated. In the future and across the developed and emerging markets of the world, the range of fuels used will significantly increase as biofuels, new fossil fuel feedstock, and processing methods, as well as variations in fuel standards, continue to influence all combustion technologies used now and in coming streams. This presents a challenge requiring better understanding of how the fuel mix influences the combustion processes in various systems. The book allows extremes of the theme to be covered in a simple yet progressive way. Ignition Sources K. Ramamurthi, 2023-01-01. This book discusses the different energy sources bringing about fires, explosions, and detonations in combustibles under different levels of confinement. Focus is on the initiation source for a combustible, whether it is a gas, a liquid, or a solid, in a given state of confinement. Incidents of oxygen-related fires in hospitals, which were particularly evident with increased usage of oxygen therapy for the extremely ill COVID-19 patients in 2021, are discussed with details of formation, accumulation, and dissipation of charges and their discharges leading to fires and explosions. Sympathetic detonations, BLEVE explosions, cook-off tests of combustibles, the inadvertent ignition sources, threats, and their control are discussed. Sporadic ignition of wildfires in a heat dome, augmented by the reflection of expansion disturbances from the interfaces separating media of different acoustic impedances, are explored. Spontaneous human combustion, pilot ignition, shock wave ignition, ignition of fuel droplets, and conditions under which fires, explosions, and detonations take place are discussed. Different ways of mitigating the inadvertent initiation of explosions and detonations are given at the end. *Integrated Computer Technologies in Mechanical Engineering - 2023* Mykola Nechyporuk, Volodymir Pavlikov, Dmytro Krytskyi, 2024-06-04. The International Scientific and Technical Conference Integrated Computer Technologies in Mechanical Engineering Synergetic Engineering ICTM was

established by National Aerospace University Kharkiv Aviation Institute The Conference ICTM 2023 was held in Kharkiv Ukraine during December 2023 During this conference technical exchanges between the research community were carried out in the forms of keynote speeches panel discussions as well as special session In addition participants were treated to a series of receptions which forge collaborations among fellow researchers ICTM 2023 received 202 papers submissions from different countries All of these offer us plenty of valuable information and would be of great benefit to the experience exchange among scientists in modeling and simulation The organizers of ICTM 2023 made great efforts to ensure the success of this conference We hereby would like to thank all the members of ICTM 2023 Advisory Committee for their guidance and advice the members of program committee and organizing committee and the referees for their effort in reviewing and soliciting the papers and all authors for their contribution to the formation of a common intellectual environment for solving relevant scientific problems Also we grateful to Springer Janusz Kacprzyk and Thomas Ditzinger as the editor responsible for the series Lecture Notes in Networks and Systems for their great support in publishing these selected papers

**Fuel for the Future** George Domazetis,2019-08-09 We are currently facing a global problem caused by increasing levels of greenhouse gases mostly derived from fossil fuels resulting in climate change Communities want an affordable and secure supply of power alongside emissions reductions Coal electricity generation offers a secure and affordable supply but currently this comes with high emissions This volume examines efforts by both industry and governments to develop a cleaner use of low rank coals It presents leading research on creating affordable high quality fuel for efficient power generation with a trajectory toward affordable zero emissions production This book will be of interest to organisations active in developing clean usage of coal and which conduct research on low emissions power It will also contribute to policy development of low and zero emissions coal power generation particularly in regions with abundant deposits of low cost brown coal lignite and subbituminous coal including the US China Europe India Indonesia and Australia

**Decarbonized Fuel Options for Long-haul Commercial Vehicles** Jody Emlyn Muelaner,2023-03-15 Most heavy trucks should be fully electric using a combination of batteries and catenary electrification but heavy trucks requiring very long unsupported range will need chemical fuels At the scale of heavy trucks compressed hydrogen can match the specific energy of diesel but its energy density is five times lower limiting range to around 2 000 km Scaling green hydrogen production and addressing leakage must be priorities Hydrogen derived electrofuels or e fuels have the potential to scale and while the economic comparison currently has unknowns clean air considerations have gained new importance Decarbonized Power Options for Long haul Commercial Vehicles discusses these energy sources as well as the caveats related to bioenergy usage and reasons to prefer ethanol or methanol to diesel type fuels Click here to access the full SAE EDGETM Research Report portfolio <https://doi.org/10.4271/EPR2023005>

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urban construction and light agriculture but remote mining forestry and road building operations will require alternative fuels Decarbonized Power Options for Non road Mobile Machinery discusses these domains as well as the potential benefits and challenges of implementing fuels and energy sources such as bioenergy e fuels and alcohol as well as hydrogen hydrocarbon and direct methanol fuel cells Click here to access the full SAE EDGETM Research Report portfolio <https://doi.org/10.4271/EPR2023002>

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*Mass and Energy Balances* Seyed Ali Ashrafizadeh,Zhongchao Tan,2018-01-10 This textbook introduces students to mass and energy balances and focuses on basic principles for calculation design and optimization as they are applied in industrial processes and equipment While written primarily for undergraduate programs in chemical energy mechanical and environmental engineering the book can also be used as a reference by technical staff and design engineers interested who are in and or need to have basic knowledge of process engineering calculation Concepts and techniques presented in this volume are highly relevant within many industrial sectors including manufacturing oil gas green and sustainable energy and power plant design Drawing on 15 years of teaching experiences and with a clear understanding of students interests the authors have adopted a very accessible writing style that includes many examples and additional citations to research resources from the literature referenced at the ends of chapters

**Between Sea and Sky: Aerial Aquatic Locomotion in Miniature Robots** Raphael Zufferey,Robert Siddall,Sophie F. Armanini,Mirko Kovac,2022-01-03 This book reports on the state of the art in the field of aerial aquatic locomotion focusing on the main challenges concerning the translation of this important ability from nature to synthetic systems and describing innovative engineering solutions that have been applied in practice by the authors at the Aerial Robotics Lab of Imperial College London After a general introduction to aerial aquatic locomotion in nature and a summary of the most important engineering achievements the book introduces readers to important physical and mathematical aspects of the multimodal locomotion problem Besides the basic physics involved in aerial aquatic locomotion the role of different

phenomena happening in fluids or those due to structural mechanics effects or to power provision are presented in depth across a large dimension range from millimeters to hundreds of meters In turn a practice oriented discussion on the obstacles and opportunities of miniaturization for both robots and animals is carried out This is followed by applied engineering considerations which describe relevant hardware considerations involved in propulsion control communication and fabrication Different case studies are analyzed in detail reporting on the latest research carried out by the authors and covering topics such as propulsive aquatic escape the challenging mechanics of water impact and a hybrid sailing and flying aircraft Offering extensive and timely information on the design construction and operation of small scale robots and on multimodal locomotion this book provides researchers students and professionals with a comprehensive and timely reference guide to the topic of aerial aquatic locomotion and the relevant bioinspired approaches It is also expected to inspire future research and foster a stronger multidisciplinary discussion in the field *University of Michigan Official Publication ,1956*

**College of Engineering** University of Michigan. College of Engineering,1992 **The CRC Handbook of Mechanical Engineering** D. Yogi Goswami,2004-09-29 The second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering **MECHANICAL ENGINEERING, ENERGY SYSTEMS AND SUSTAINABLE DEVELOPMENT -Volume II** Konstantin V. Frolov, Oleg N. Favorsky,R.A. Chaplin and Christos Frangopoulos,2009-04-15 Mechanical Engineering Energy Systems and Sustainable Development theme is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mechanical Engineering Energy Systems and Sustainable Development with contributions from distinguished experts in the field discusses mechanical engineering the generation and application of heat and mechanical power and the design production and use of machines and tools These five volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs *Transactions of the American Institute of Electrical Engineers* American Institute of Electrical Engineers,1925 List of members in v 7 15 17 19 20 **MECHANICAL ENGINEERING, ENERGY SYSTEMS AND SUSTAINABLE DEVELOPMENT -Volume III** Konstantin V. Frolov, Oleg N. Favorsky, R.A. Chaplin and Christos Frangopoulos,2009-04-15 Mechanical Engineering Energy Systems and Sustainable Development theme is a component of Encyclopedia of Physical Sciences

Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mechanical Engineering Energy Systems and Sustainable Development with contributions from distinguished experts in the field discusses mechanical engineering the generation and application of heat and mechanical power and the design production and use of machines and tools These five volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs **MECHANICAL**

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contributions coming from seven countries outside Europe The contributions reflect the progress that has been achieved in hydrogen technology aimed primarily at hydrogen as the ultimate energy vector This research have already yielded mature technologies for mass production in many areas These and future results will be of increased interest and importance as global and local environmental issues move higher up the political agenda In order to facilitate new contacts between scientists and strengthen existing ones the symposium incorporated an extensive social program managed by the Conference Administrator Ms Ann Y stad



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