

Fundamentals of Combustion

Fundamentals Of Combustion

Roger A. Strehlow



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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.

FUNDAMENTALS OF COMBUSTION D. P. Mishra, 2007-12-19

Designed for both undergraduate and postgraduate students of mechanical, aerospace, chemical, and metallurgical engineering, this compact and well-knitted textbook provides a sound conceptual basis in fundamentals of combustion processes, highlighting the basic principles of natural laws. In the initial part of the book, chemical thermodynamics, kinetics, and conservation equations are reviewed extensively with a view to preparing students to assimilate quickly intricate aspects of combustion covered in later chapters. Subsequently, the book provides extensive treatments of pre-mixed laminar flame and gaseous diffusion flame, emphasizing the practical aspects of these flames. Besides liquid droplet combustion under quiescent and convective environment, is covered in the book. Simplified analysis of spray combustion is carried out which can be used as a design tool. An extensive treatment on the solid fuel combustion is also included. Emission combustion systems and how to control emission from them using the latest techniques constitute the subject matter of the final chapter. Appropriate examples are provided throughout to foster better understanding of the concepts discussed. Chapter end review questions and problems are included to reinforce the learning process of students.

Fundamentals of Combustion Engineering

Achintya Mukhopadhyay, Swarnendu Sen, 2019-02-22 This book is an introductory text on fundamental aspects of combustion including thermodynamics, heat and mass transfer, and chemical kinetics which are used to systematically derive the basic concepts of combustion. Apart from the fundamental aspects, many of the emerging topics in the field like microscale combustion, combustion dynamics, oxy-fuel combustion, and combustion diagnostics are also covered in the book. This would help the beginners in the subject to get initiated to the state-of-the-art topics. Key Features: Coverage of the essential aspects of combustion engineering suitable for both beginners and practicing professionals. Topics like entropy generation, microscale combustion, combustion diagnostics, second-law based analysis, exclusive to the title. Balanced treatment of thermodynamics, transport phenomena, and chemical kinetics. Discussion on state-of-the-art techniques in combustion diagnostics. Illustrates combustion of gaseous, liquid, and solid fuels along with emission of pollutants and greenhouse gases.

Fundamentals of Combustion Roger A. Strehlow, 1968

Fundamentals and Technology of Combustion F. El-Mahallawy, S. E-Din

Habik, 2002-07-10 Fundamentals and Technology of Combustion contains brief descriptions of combustion fundamental processes followed by an extensive survey of the combustion research technology. It also includes mathematical combustion

modeling of the processes covering mainly premixed and diffusion flames where many chemical and physical processes compete in complex ways for both laminar and turbulent flows The combustion chemistry models that validate experimental data for different fuels are sufficiently accurate to allow confident predictions of the flame characteristics This illustrates a unique bridge between combustion fundamentals and combustion technology which provides a valuable technical reference for many engineers and scientists Moreover the book gives the reader sufficient background of basic engineering sciences such as chemistry thermodynamics heat transfer and fluid mechanics The combustion research and mathematical models fit between small scale laboratory burner flames and large scale industrial boilers furnaces and combustion chambers The materials have been collected from previous relevant research and some selected papers of the authors and co workers which have been presented mainly in different refereed journals international conferences and symposia thus providing a comprehensive collection Furthermore the book includes some of the many recent general correlations for the characteristics of laminar turbulent premixed and diffusion flames in an easily usable form The authors believe that further progress in optimizing combustion performance and reducing polluting emissions can only be treated through understanding of combustion chemistry

Lectures Notes on Fundamentals of Combustion J. Powers, Garry Gafoor, 2018-11-19 These are lecture notes for AME 60636 Fundamentals of Combustion a course taught since 1994 in the Department of Aerospace and Mechanical Engineering of the University of Notre Dame Most of the students in this course are graduate students the course is also suitable for interested undergraduates The objective of the course is to provide background in theoretical combustion science Most of the material in the notes is covered in one semester some extra material is also included

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revised *Combustion Engineering* Kenneth W. Ragland, Kenneth M. Bryden, 2011-05-06 *Combustion Engineering* Second Edition maintains the same goal as the original to present the fundamentals of combustion science with application to today's energy challenges Using combustion applications to reinforce the fundamentals of combustion science this text provides a uniquely accessible introduction to combustion for undergraduate students **Fundamentals of Combustion and Air Supply** J. T. Anthony, 1919 **Internal Combustion Engine Fundamentals** John Heywood, 1988 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

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