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Principles Of Combustion Kuo Solutions Principles of Combustion, Second Edition is a revision of what was the leading book on combustion engineering. The new edition has been revised to include new theoretical results and measurement techniques of non-intrusive diagnostic methods,

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The second edition of Principles of Combustion gives a comprehensive description of the state-of-the art in combustion and reactive flow dynamics. It was published in 2005 and aims to fill the gap between basic understanding of combustion phenomena and the specialist textbooks in the field (e.g., combustion in gas turbines).

Book Review: Principles of Combustion, by Kenneth K. Kuo ...

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THE LONG-AWAITED NEW EDITION OF THE LEADING RESOURCE ON COMBUSTION ENGINEERING The definitive volume on combustion engineering for nearly two decades, Principles of Combustion has now been thoroughly revised and expanded to address major advances in the field in recent years. This Second Edition offers a thorough treatment of the essentials of chemically reacting flow systems, with broad ...

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Publisher Description

This comprehensive text covers principles and applications with an emphasis on the theoretical modeling of combustion. Addresses chemical thermodynamics and kinetics, conservation equations for multi-component reacting flows, deflagration and detonation waves, premixed laminar flames, spray combustion of fuel droplets, ignition, and related topics. Many examples are included to demonstrate the application of theory. Emphasizes the use of digital computers for solutions.

Combustion technology has traditionally been dominated by air/fuel combustion. However, two developments have increased the significance of oxygen-enhanced combustion - new technology producing oxygen less expensively and the increased importance of environmental regulations. Advantages of oxygen-enhanced combustion include numerous environmental benefits as well as increased energy efficiency and productivity. The text compiles information about using oxygen to enhance high temperature industrial heating and melting processes - serving as a unique resource for specialists implementing the use of oxygen in combustion systems; combustion equipment and industrial gas suppliers; researchers; funding agencies for advanced combustion technologies; and agencies developing regulations for safe, efficient, and environmentally friendly combustion systems. Oxygen-Enhanced Combustion: Examines the fundamentals of using oxygen in combustion, pollutant emissions, oxygen production, and heat transfer Describes ferrous and nonferrous metals, glass, and incineration Discusses equipment, safety, design, and fuels Assesses recent trends including stricter environmental regulations, lower-cost methods of producing oxygen, improved burner designs, and increasing fuel costs Emphasizing applications and basic principles, this book will act as the primary resource for mechanical, chemical, aerospace, and environmental engineers and scientists; physical chemists; fuel technologists; fluid dynamists; and combustion design engineers. Topics include: General benefits Economics Potential problems Pollutant emissions Oxygen production Adsorption Air separation Heat transfer Ferrous metals Melting and refining processes Nonferrous metals Minerals Glass furnaces Incineration Safety Handling and storage Equipment design Flow controls Fuels

Turbulence, turbulent combustion, and multiphase reacting flows have become major research topics in recent decades due to their application across diverse fields, including energy, environment, propulsion, transportation, industrial safety, and nanotechnology. Most of the knowledge accumulated from this research has never been published in book form until now. Fundamentals of Turbulent and Multiphase Combustion presents up-to-date, integrated coverage of the fundamentals of turbulence, combustion, and multiphase phenomena along with useful experimental techniques, including non-intrusive, laser-based measurement techniques, providing a firm background in both contemporary and classical approaches. Beginning with two full chapters on laminar premixed and non-premixed flames, this book takes a multiphase approach, beginning with more common topics and moving on to higher-level applications. In addition, Fundamentals of Turbulent and Multiphase Combustion: Addresses seven basic topical areas in combustion and multiphase flows, including laminar premixed and non-premixed flames, theory of turbulence, turbulent premixed and non-premixed flames, and multiphase flows Covers spray atomization and combustion, solid-propellant combustion, homogeneous propellants, nitramines, reacting boundary-layer flows, single energetic particle combustion, and granular bed combustion Provides experimental setups and results whenever appropriate Supported with a large number of examples and problems as well as a solutions manual, Fundamentals of Turbulent and Multiphase Combustion is an important resource for professional engineers and researchers as well as graduate students in mechanical, chemical, and aerospace engineering.

A hands-on, integrated approach to solving combustion problems in diverse areas An understanding of turbulence, combustion, and multiphase reacting flows is essential for engineers and scientists in many industries, including power generation, jet and rocket propulsion, pollution control, fire prevention and safety, and material processing. This book offers a highly practical discussion of burning behavior and chemical processes occurring in diverse materials, arming readers with the tools they need to solve the most complex combustion problems facing the scientific community today. The second of a two-volume work, Applications of Turbulent and Multiphase Combustion expands on topics involving laminar flames from Professor Kuo's bestselling book Principles of Combustion, Second Edition, then builds upon the theory discussed in the companion volume Fundamentals of Turbulent and Multiphase Combustion to address in detail cutting-edge experimental techniques and applications not covered anywhere else. Special features of this book include: Coverage of advanced applications such as solid propellants, burning behavior, and chemical boundary layer flows A multiphase systems approach discussing basic concepts before moving to higher-level applications A large number of practical examples gleaned from the authors' experience along with problems and a solutions manual Engineers and researchers in chemical and mechanical engineering and materials science will find Applications of Turbulent and Multiphase Combustion an indispensable guide for upgrading their skills and keeping up with this rapidly evolving area. It is also an excellent resource for students and professionals in mechanical, chemical, and aerospace engineering.

Although many books have been written on computational fluid dynamics (CFD) and many written on combustion, most contain very limited coverage of the combination of CFD and industrial combustion. Furthermore, most of these books are written at an advanced academic level, emphasize theory over practice, and provide little help to engineers who need to use CFD for combustion modeling. Computational Fluid Dynamics in Industrial Combustion fills this gap in the literature. Focusing on topics of interest to the practicing engineer, it codifies the many relevant books, papers, and reports written on this combined subject into a single, coherent reference. It looks at each topic from a somewhat narrow perspective to see how that topic affects modeling in industrial combustion. The editor and his team of expert authors address these topics within three main sections: Modeling Techniques-The basics of CFD modeling in combustion Industrial Applications-Specific applications of CFD in the steel, aluminum, glass, gas turbine, and petrochemical industries Advanced Techniques-Subjects rarely addressed in other texts, including design optimization, simulation, and visualization Rapid increases in computing power and significant advances in commercial CFD codes have led to a tremendous increase in the application of CFD to industrial combustion. Thorough and clearly representing the techniques and issues confronted in industry, Computational Fluid Dynamics in Industrial Combustion will help bring you quickly up to date on current methods and gain the ability to set up and solve the various types of problems you will encounter.

This textbook provides students studying thermodynamics for the first time with an accessible and readable primer on the subject. The book is written in three parts: Part I covers the fundamentals of thermodynamics, Part II is on gas dynamics, and Part III focuses on combustion. Chapters are written clearly and concisely and include examples and problems to support the concepts outlined in the text. The book begins with a discussion of the fundamentals of thermodynamics and includes a thorough analysis of engineering devices. The book moves on to address applications in gas dynamics and combustion to include advanced topics such as two-phase critical flow and blast theory. Written for use in Introduction to Thermodynamics, Advanced Thermodynamics, and Introduction to Combustion courses, this book uniquely covers thermodynamics, gas dynamics, and combustion in a clear and concise manner, showing the integral connections at an advanced undergraduate or graduate student level.

The utilization of mathematical models to numerically describe the performance of internal combustion engines is of great significance in the development of new and improved engines. Today, such simulation models can already be viewed as standard tools, and their importance is likely to increase further as available computer power is expected to increase and the predictive quality of the models is constantly enhanced. This book describes and discusses the most widely used mathematical models for in-cylinder spray and combustion processes, which are the most important subprocesses affecting engine fuel consumption and pollutant emissions. The relevant thermodynamic, fluid dynamic and chemical principles are summarized, and then the application of these principles to the in-cylinder processes is explained. Different modeling approaches for the each subprocesses are compared and discussed with respect to the governing model assumptions and simplifications. Conclusions are drawn as to which model approach is appropriate for a specific type of problem in the development process of an engine. Hence, this book may serve both as a graduate level textbook for combustion engineering students and as a reference for professionals employed in the field of combustion engine modeling. The research necessary for this book was carried out during my employment as a postdoctoral scientist at the Institute of Technical Combustion (ITV) at the University of Hannover, Germany and at the Engine Research Center (ERC) at the University of Wisconsin-Madison, USA.

Combustion of Two-Phase Reactive Media addresses the complex phenomena involved in the burning of solid and liquid fuels. In fact, the multiplicity of phenomena characteristic of combustion of two-phase media determine the contents. The three parts deal with: the dynamics of a single particle; combustion wave propagation in two-phase reactive media; and thermal regimes of combustion reactors. The book generalizes the results of numerous investigations into the ignition and combustion of solid particles, droplets and bubbles, combustion wave propagation in heterogeneous reactive media, the stability of combustion of two-phase media, as well as the thermal regimes of high-temperature combustion reactors. It merges findings from the authors' investigations into problems of two-phase flows and material from graduate-level courses they teach at Technion-Israel Institute of Technology.

This book provides the latest achievements and original research work in physics of combustion processes and application of the methods developed in combustion physics for astrophysical problems of stars burning, supernovae explosions and a confined thermonuclear fusion. All the materials in the book are presented in a concise and easily accessible way, but at the same time provides a deep physical inside in the phenomena considered. It is an effective theoretical course with the direct practical implications in engineering fields of engine's development, energy production, safety issues inherent to terrestrial combustion, as well as in thermonuclear combustion in the inertial fusion. This book is aimed at university students, Ph.D. students and engineers, as well as professionals in combustion, energy-related research, astrophysics and researchers in neighboring fields.