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Throughout its previous four editions, Combustion has made a very complex subject both enjoyable and understandable to its student readers and a pleasure for instructors to teach. With its clearly articulated physical and chemical processes of flame combustion and smooth, logical transitions to engineering applications, this new edition continues that tradition. Greatly expanded end-of-chapter problem sets and new areas of combustion engineering applications make it even easier for students to grasp the significance of combustion to a wide range of engineering practice, from transportation to energy generation to environmental impacts. Combustion engineering is the study of rapid energy and mass transfer usually through the common physical phenomena of flame oxidation. It covers the physics and chemistry of this process and the engineering applications—including power generation in internal combustion automobile engines and gas turbine engines. Renewed concerns about energy efficiency and fuel costs, along with continued concerns over toxic and particulate emissions, make this a crucial area of engineering. New chapter on new combustion concepts and technologies, including discussion on nanotechnology as related to combustion, as well as microgravity combustion, microcombustion, and catalytic combustion—all interrelated and discussed by considering scaling issues (e.g., length and time scales) New information on sensitivity analysis of reaction mechanisms and generation and application of reduced mechanisms Expanded coverage of turbulent reactive flows to better illustrate real-world applications Important new sections on stabilization of diffusion flames—for the first time, the concept of triple flames will be introduced and discussed in the context of diffusion flame stabilization

This book is designed as a textbook for mechanical engineering seniors or beginning graduate students. The book provides a reasonable theoretical basis for a subject that has traditionally had a very strong experimental base. The core of the book is devoted to boundary layer theory with special emphasis on the laminar and turbulent thermal boundary layer. Two chapters on heat exchanger theory are included since this subject is one of the principle application areas of convective heat transfer.

Sulfur, Energy, and Environment is a guide to the properties of sulfur; its three important compounds; and a review of the production, use, and recovery of sulfur in relation to energy production and environmental protection. After a brief introduction to the history of sulfur, the chemical properties of the element and some important compounds are reviewed, using common analytical methods. Sulfur is a strategic chemical in many modern applications and may make headway into high-volume non-chemical uses as it is being modified according to our changing technology and needs. The sources of sulfur and where it frequently occurs is explained. This discussion is followed by citing reviews of the four most important cycles, that is, the global sulfur cycle, hydrosphere, atmospheric sulfur budget, and the anthropogenic sulfur cycle. Sulfur production methods, coal combustion chemistry, and flue gas desulfurization are then described. The many uses of sulfur are described, including in medicine, agriculture, chemical industry, and the plastic industry. However, throughout the production of sulfur, problems affecting the environment occur, so environmental control and legislation are also discussed. Finally, the trends of sulfur research, production, use and recovery, role of chemistry, and the future overall area where science, energy, chemistry, and the environment exist together are presented. Chemists and chemistry students, industrialists, and environmental planners will find this guide to sulfur helpful. Lecturers in chemistry and researchers in the many fields of application of sulfur will likewise benefit from it.

The Problems of Sulphur discusses all aspects of the problems associated with sulfur in coal. The book is divided into three parts. Part 1 addresses the forms of sulfur in coal and evaluates processes directed at the chemical removal of sulphur. Part 2 expands on this to look at alternative means of removing sulfur both physically and biologically, sulfur removal during the combustion of coal and flue gas desulfurization processes. Part 3 looks at the role of sulphates in the atmosphere from the points of view of their formation, transport and deposition and of their effects on health, materials and the atmosphere. The book will be of value to engineers, environmentalists, and chemists.

These proceedings contain the papers presented at the 4th International Symposium on Engineering Turbulence Modelling and Measurements held at Ajaccio, Corsica, France from 24-26 May 1999. It follows three previous conferences on the topic of engineering turbulence modelling and measurements. The purpose of this series of symposia is to provide a forum for presenting and discussing new developments in the area of turbulence modelling and measurements, with particular emphasis on engineering-related problems. Turbulence is still one of the key issues in tackling engineering flow problems. As powerful computers and accurate numerical methods are now available for solving the flow equations, and since engineering applications nearly always involve turbulence effects, the reliability of CFD analysis depends more and more on the performance of the turbulence models. Successful simulation of turbulence requires the understanding of the complex physical phenomena involved and suitable models for describing the turbulent momentum, heat and mass transfer. For the understanding of turbulence phenomena, experiments are indispensable, but they are equally important for providing data for the development and testing of turbulence models and hence for CFD software validation.

&Quot;Renewable Energy is essential reading for undergraduates and graduates in Earth Sciences, Environmental Sciences, and Engineering. Researchers will find it a useful reference tool. The book will also prove invaluable to consultants and planners working in both the public and private sectors of government and international agencies.”–BOOK JACKET.

An introduction to CFD fundamentals and using commercial CFD software to solve engineering problems, designed for the wide variety of engineering students new to CFD, and for practicing engineers learning CFD for the first time. Combining an appropriate level of mathematical background, worked examples, computer screen shots, and step by step processes, this book walks the reader through modeling and computing, as well as interpreting CFD results. The first book in the field aimed at CFD users rather than developers. New to this edition: A more comprehensive coverage of CFD techniques including discretisation via finite element and spectral element as well as finite difference and finite volume methods and multigrid method. Coverage of different approaches to CFD grid generation in order to closely match how CFD meshing is being used in industry. Additional coverage of high-pressure fluid dynamics and meshless approach to provide a broader overview of the application areas where CFD can be used. 20% new content

An up-to-date, exhaustive reference of all solids capable of changing the physical and chemical properties of materials. This one volume presents the information needed to market, develop, select, manufacture and apply these versatile new grades of fillers. Contains all the fundamentals and latest advances in fillers technology and the products in which they are used.

Nonsteady Flame Propagation provides information pertinent to flame propagation in gaseous media. This book focuses on linearized treatments and the comparison of their results with experimental observations. Organized into nine chapters, this book begins with an overview of the challenge of nonlinear problems and examines the essentially nonlinear character of the flame phenomena, which has been artificially suppressed in analyses by the use of linearized perturbation treatments. This text then summarizes the development regarding rocket-shaped burners. Other chapters consider the advantages as well as the limitations of linearized analyses. This book discusses as well a general treatment of the discontinuous-flame-front model and summarizes the results of studies of burner that use secondary air. The final chapter deals with re-examining the possibilities of using pulsating combustion in propulsion or in other applications. This book is a valuable resource for chemical engineers, chemists, scientists, and research workers.

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

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