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updated text, now in its Second Edition, continues to provide a thorough understanding of the fundamental principles of classical thermodynamics starting with the most elementary ideas of heat and temperature. The book also focuses on practical applications of thermodynamic processes and equips students with simple techniques of solving engineering problems.

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Engineering Thermodynamics has been designed for students of all branches of engineering specially undergraduate students of Mechanical Engineering. The book will also serve as reference manual for practising engineers. The book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject. The text has been supplemented with solved numerical problems, illustrations and question banks. The present book has been divided in five parts: " Thermodynamic Laws and Relations" Properties of Gases and Vapours" Thermodynamics Cycles" Heat Transfer and Heat Exchangers" Annexures

High Temperature Solid Oxide Fuel Cells: Fundamentals, Design and Applications provides a comprehensive discussion of solid oxide fuel cells (SOFCs). SOFCs are the most efficient devices for the electrochemical conversion of chemical energy of hydrocarbon fuels into electricity, and have been gaining increasing attention for clean and efficient distributed power generation. The book explains the operating principle, cell component materials, cell

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and stack designs and fabrication processes, cell and stack performance, and applications of SOFCs. Individual chapters are written by internationally renowned authors in their respective fields, and the text is supplemented by a large number of references for further information. The book is primarily intended for use by researchers, engineers, and other technical people working in the field of SOFCs. Even though the technology is advancing at a very rapid pace, the information contained in most of the chapters is fundamental enough for the book to be useful even as a text for SOFC technology at the graduate level.

This textbook comprehensively covers the fundamentals and advanced concepts of thermodynamics in a single volume. It provides a detailed discussion of advanced concepts that include energy efficiency, energy sustainability, energy security, organic Rankine cycle, combined cycle power plants, combined cycle power plant integrated with organic Rankine cycle and absorption refrigeration system, integrated coal gasification combined cycle power plants, energy conservation in domestic refrigerators, and next-generation low-global warming potential refrigerants. Pedagogical features include solved problems and unsolved exercises interspersed throughout the text for better understanding. This textbook is primarily written for senior undergraduate students in the fields of mechanical, automobile, chemical, civil, and aerospace engineering for courses on engineering thermodynamics/thermodynamics and for graduate students in thermal engineering and energy engineering for courses on advanced thermodynamics. It is accompanied by teaching resources, including a solutions manual for instructors. FEATURES Provides design and experimental problems for better understanding Comprehensively discusses power

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cycles and refrigeration cycles and their advancements Explores the design of energy-efficient buildings to reduce energy consumption Property tables, charts, and multiple-choice questions comprise appendices of the book and are available at <https://www.routledge.com/9780367646288>.

Basics of Mechanical Engineering systematically develops the concepts and principles essential for understanding engineering thermodynamics, mechanics and strength of materials. This book is meant for first year B. Tech students of various technical universities. It will also be helpful for candidates preparing for various competitive examinations.

Over the last few years there has been increasing need for systematic and strategically designed experiments of surface morphology evolution resulting from ion bombardment induced sputtering. Although there is an impressive number of investigations {1} concerned with semiconductor materials as a result of immediate applications, the most systematic investigations have been conducted with fcc metals with particular interest on single crystal Cu {2,3}. Evidence now exists that within certain parameters (i. e ion species (Ar⁺), ion energy (20-44 KeV), substrate temperature (80-550 ° K), dose rate (100-500 gA cm⁻²), residual x 5 9 pressure (5 10⁻ to 5x10⁻ mm Hg) and polar and azimuthal angle of ion incidence {4} reproducible surface morphology (etch pits and pyramids) is achieved on the (11 3 1) specific crystallographic orientation. The temporal development of individual

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surface features was also observed in this later study {4}, by employing an in situ ion source in the scanning electron microscope at Salford, a technique also employed in studies of the influence of polar angle of ion incidence {5} and surface contaminants {6} on the topography of Ar⁺ bombarded Si. Studies have also been made on the variation of incident ion species with the (11 3 1) Cu surface and it was fully recognized {7} that residual surface contaminants when present could play a major role in dictating the morphological evolution.

The second edition of this well-received book, continues to present the operating principles and working aspects of thermal and hydraulic machines. First, it covers the laws and the essential principles of thermodynamics that form the basis on which thermal machines operate. It subsequently presents the principles, construction details and the methods of control of hydraulic and thermal machines. The coverage of thermal machines includes steam turbines, gas turbines, IC engines, and reciprocating and centrifugal compressors. The coverage of hydraulic machines includes hydraulic turbines, reciprocating pumps and centrifugal pumps. The classification, construction and efficiency of these machines have been discussed with plenty of diagrams and worked problems. This will help the readers understand easily the underlying principles. This new edition includes substantially updated chapters and also introduces additional text as per the syllabus requirement. The book is intended for the undergraduate engineering students pursuing courses in mechanical, electrical and civil branches. **KEY FEATURES :** Provides succinct coverage of all operating aspects of thermal and hydraulic machines. Includes a large number of worked problems at the end of each chapter to help students achieve a sound understanding of the subject

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matter. Gives objective type questions with explanatory answers to assist students in preparing for competitive examinations.

Numerical Prediction of Flow, Heat Transfer, Turbulence and Combustion: Selected Works of Professor D. Brian Spalding focuses on the many contributions of Professor Spalding on thermodynamics. This compilation of his works is done to honor the professor on the occasion of his 60th birthday. Relatively, the works contained in this book are selected to highlight the genius of Professor Spalding in this field of interest. The book presents various research on combustion, heat transfer, turbulence, and flows. His thinking on separated flows paved the way for the multi-dimensional modeling of turbulence. Arguments on the universality of the models of turbulence and the problems that are associated with combustion engineering are clarified. The text notes the importance of combustion science as well as the problems associated with it. Mathematical computations are also presented in determining turbulent flows in different environments, including on curved pipes, curved ducts, and rotating ducts. These calculations are presented to further strengthen the claims of Professor Spalding in this discipline. The book is a great find for those who are interested in studying thermodynamics.

This Book Presents A Systematic Account Of The Concepts And Principles Of Engineering Thermodynamics And The Concepts And Practices Of Thermal Engineering. The Book Covers Basic Course Of Engineering Thermodynamics And Also Deals With The Advanced Course Of Thermal Engineering. This Book Will Meet The Requirements Of The Undergraduate Students

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Of Engineering And Technology Undertaking The Compulsory Course Of Engineering Thermodynamics. The Subject Matter Of Book Is Sufficient For The Students Of Mechanical Engineering/Industrial-Production Engineering, Aeronautical Engineering, Undertaking Advanced Courses In The Name Of Thermal Engineering/Heat Engineering/ Applied Thermodynamics Etc. Presentation Of The Subject Matter Has Been Made In Very Simple And Understandable Language. The Book Is Written In Si System Of Units And Each Chapter Has Been Provided With Sufficient Number Of Typical Numerical Problems Of Solved And Unsolved Questions With Answers.

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