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this leading text in the field maintains its engaging readable style while presenting a broader range of applications that motivate engineers to learn the core thermodynamics concepts two new coauthors help update the material and integrate engaging new problems throughout the chapters they focus on the relevance of thermodynamics to modern engineering problems many relevant engineering based situations are also presented to help engineers model and solve these problems

there are many thermodynamics texts on the market yet most provide a presentation that is at a level too high for those new to the field this second edition of thermodynamics continues to provide an accessible introduction to thermodynamics which maintains an appropriate rigor to prepare newcomers for subsequent more advanced topics the book p

because classical thermodynamics evolved into many branches of science and engineering most undergraduate courses on the subject are taught from the perspective of each area of specialization general thermodynamics combines elements from mechanical and chemical engineering chemistry including electrochemistry materials science and biology to present a unique and thorough treatment of thermodynamics that is broader in scope than other fundamental texts this book contains classroom tested materials designed to meet the academic requirements for students from a variety of scientific and engineering backgrounds in a single course the first half focuses on classical concepts of thermodynamics whereas the latter half explores field specific applications including a unique chapter on biothermodynamics the book's methodology is unified concise and multidisciplinary allowing students to understand how the principles of thermodynamics apply to all technical fields that touch upon this most fundamental of scientific theories it also offers a rigorous approach to the quantitative aspects of thermodynamics accompanied by clear explanations to help students transition smoothly from the physical concepts to their mathematical representations each chapter contains numerous worked examples taken from different engineering applications illustrations and an extensive set of exercises to support the material a complete solutions manual is available to professors with qualifying course adoptions

a textbook of physical chemistry

it's with great happiness that i would like to acknowledge a great deal of people that get helped me extremely through the entire difficult challenging but a rewarding and interesting path towards some sort of edited book without having their help and support none of this work could have been possible

this book differs from other thermodynamics texts in its objective which is to provide engineers with the concepts tools and experience needed to solve practical real world energy problems the presentation integrates computer tools such as ees with thermodynamic concepts to allow engineering students and practising engineers to solve problems they would otherwise not be able to solve the use of examples solved and explained in detail and supported with property diagrams that are drawn to scale is ubiquitous in this textbook the examples are not trivial drill problems but rather complex and timely real world problems that are of interest by themselves as with the presentation the solutions to these examples are complete and do not skip steps similarly the book includes numerous end of chapter problems both typeset and online most of these problems are more detailed than those found in other thermodynamics textbooks the supplements include complete solutions to all exercises software downloads and additional content on selected topics these are available on the book s website cambridge.org/kleinandnellis

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

although the focus of this textbook is on traditional thermodynamics topics the book is concerned with introducing the thermal fluid sciences as well it is designed for the instructor to select topics and seamlessly combine them with material from other chapters pedagogical devices include learning objectives chapter overviews and summaries historical perspectives and numerous examples questions problems and lavish illustrations students are encouraged to use the national institute of science and technology nist online properties database

the ability of thermal energy storage tes systems to facilitate energy savings renewable energy use and reduce environmental impact has led to a recent resurgence in their interest the second edition of this book offers up to date coverage of recent energy efficient and sustainable technological methods and solutions covering analysis design and performance improvement as well as life cycle costing and assessment as well as having significantly revised the book for use as a graduate text the authors address real life technical and operational problems enabling the reader to gain an understanding of the fundamental principles and practical applications of thermal energy storage technology beginning with a general summary of thermodynamics fluid mechanics and heat transfer this book goes on to discuss practical applications with chapters that include tes systems environmental impact energy savings energy and exergy analyses numerical modeling and simulation case studies and new techniques and performance assessment methods

physics of cryogenics an ultralow temperature phenomenon discusses the significant number of advances that have been made during the last few years in a variety of cryocoolers such as brayton joule thomson stirling pulse tube gifford mcmahon and magnetic refrigerators the book reviews various approaches taken to improve reliability a major driving force for new research areas the advantages and disadvantages of different cycles are compared and the latest improvements in each of these cryocoolers is discussed the book starts with the thermodynamic fundamentals followed by the definition of cryogenic and the associated science behind low temperature phenomena and properties this book is an ideal resource for scientists engineers and graduate and senior undergraduate students who need a better understanding of the science of cryogenics and related thermodynamics defines the fundamentals of thermodynamics that are associated with cryogenic processes provides an overview of the history of the development of cryogenic technology includes new low temperature tables written by the author deals with the application of cryogenics to preserve objects at very low temperature explains how cryogenic phenomena work for human cell and human body preservations and new medical approaches

drawing on the authors extensive research and project implementation around the globe this book provides detailed knowledge for converting solar radiation into a suitable energy supply it presents technical fundamentals to give a clear understanding of how solar energy can be captured for later use the authors examine thermosolar collectors photovoltaics modules and other important types of solar receivers as well as cover typical cost effective applications including water pumping residential electrification lighting small scale irrigation and more examples case studies and lessons learned from technical failures illustrate how to best implement solar energy projects

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Introduction

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