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Problems And Solutions

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The methods of chemical
thermodynamics are
effectively used in many

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fields of science and technology. Mastering these methods and their use in practice requires profound comprehension of the theoretical questions and acquisition of certain

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calculating skills. This book is useful to undergraduate and graduate students in chemistry as well as chemical, thermal and refrigerating technology; it will also benefit specialists in

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all other fields who are interested in using these powerful methods in their practical activities.

Irodov is renowned for developing the problem-based skills in physics. Almost

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every engineer students
prefer to go through Irodov ' s
Problems due to its
unmatched pedagogies
enhancing the conceptual
clarity and ultimately raising
the confidence level of

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aspirants to perform better in their exams. Solutions to IRODOV ' S Problems in General PHYSICS has been revised to teach the solutions to the most difficult and trickiest questions of Physics.

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Various methodologies shown in the book stimulate the intellect of the students to work out the concept-based problems by strengthening the fundamentals of the Physics. Volume 1 is

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segregated into two parts promoting the problem-based skill in the topics of Mechanics, Thermodynamics and Molecular Physics. For all the aspirants of Engineering Entrances (IIT JEE, etc.),

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this classic book is a great source to build up the confidence and those who are seeking to participate in Physics Olympiad, this book equally serves best to them as well. Table of Contents

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Part I Mechanics: Kinematics,
The Fundamental Equation of
Dynamics, Laws of
Conservation of Energy,
Momentum and Angular
Momentum, Universal
Gravitation, Dynamics of a

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Solid Body, Elastic
Deformation of a Solid Body,
Hydrodynamics, Relativistic
Mechanism, Part II
Thermodynamics and
Molecular Physics, Equation
of the Gas State, Processes,

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The First Law of
Thermodynamics: Heat
Capacity, Kinetic Theory of
Gases: Boltzmann ' s Law and
Maxwell ' s Distribution, The
Second Law of
Thermodynamics, Entropy,

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Liquids, Capillary Effects,
Phase Transformations,
Transport Phenomena
The ninth edition of
Thermodynamics and Heat
Power contains a revised
sequence of thermodynamics

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concepts including physical properties, processes, and energy systems, to enable the attainment of learning outcomes by Engineering and Engineering Technology students taking an

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introductory course in thermodynamics. Built around an easily understandable approach, this updated text focuses on thermodynamics fundamentals, and explores renewable energy generation,

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IC engines, power plants, HVAC, and applied heat transfer. Energy, heat, and work are examined in relation to thermodynamics cycles, and the effects of fluid properties on system

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performance are explained. Numerous step-by-step examples and problems make this text ideal for undergraduate students. This new edition: Introduces physics-based mathematical

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formulations and examples in a way that enables problem-solving. Contains extensive learning features within each chapter, and basic computational exercises for in-class and laboratory

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activities. Includes a straightforward review of applicable calculus concepts. Uses everyday examples to foster a better understanding of thermal science and engineering concepts. This

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book is suitable for
undergraduate students in
engineering and engineering
technology.

Problems in Undergraduate
Physics, Volume IV:
Molecular Physics,

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Thermodynamics, Atomic and Nuclear Physics presents a set of problems in physics as well as answers and solutions in the second part. This book covers several subjects, including thermometry,

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atoms, kinetic theory of matter, surface tension, thermodynamics, and thermal conductivity. Organized into two parts encompassing two chapters, this volume begins with several problems

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involving molecular physics, particularly calorimetry, thermal expansion, and thermometry. This text proceeds with a set of problems concerning atomic and nuclear physics, including

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the quantum nature of light, the wave properties of particles, X-rays, and structure of the atom and spectra. Tables at the end of this book provide information on the range – energy

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relationships for particles in emulsions as well as well as on the uranium – radium radioactive series. This book is intended to be suitable for students in physics. Teachers and research workers will

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also find this book extremely
useful.

Energy Studies

Thermodynamics and Heat
Power, Ninth Edition

Thermodynamics and Heat
Power

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IIT JEE Physics (1978 to
2018: 41 Years) Topic-wise
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Problems and Solutions on
Thermodynamics and
Statistical Mechanics

The material for these

Page 27/179

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***volumes has been selected
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examination questions for
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University of New York at
Buffalo, Princeton
University and University of
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available in the ebook
version.***

***This manual contains
detailed solutions of
slightly more than half of
the end of chapter problems***

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***in The Dynamics of Heat.
The numbers of the
problems included here are
listed on the following
page. A friend who knows
me well noticed that I have
included only those***

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problems which I could actually solve myself. Also, to make things more interesting, I have built random errors into the solutions. If you find any of them, please let me know.

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Also, if you have different ways of solving a problem, I would be happy to hear from you. Any feedback, also on the book in general, would be greatly appreciated. There is an

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Errata sheet for the first printing of The Dynamics of Heat. By the time you read this, it should be available on the Internet for you to download. A reference to the URL of the sheet can be

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***found in the announcement
of my book on Springer's
WWWpages (www.springer-ny.com). Winterthur, 1996
Hans Fuchs vi Numbers of
Problems Solved Prologue
1,2,4,5,6,8, 12, 13, 17, 19,2***

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**3,25,27,30,32,33,34,38,39,40,42,44,47,
49,50,53,55,60,61,62**

Chapter 1

2,4,5,8,9,11,13,15, 16, 17, 18,20,21,24,26,27,29,31,33,34,37,39,41, 42,44,45,47,49,

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51,53,55,57,58,60,62

**Chapter 2 1,3,5,6,7,9,10,12,
14,15,16,17,19,20,22,23,24,
26,27, 29, 30, 32, 33,
36,37,38,41,42,46,47,49**

Interlude

2,3,4,5,6,8,10,11,12,13, 18,

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**19,20,21,23,24,28 Chapter
3 2,4,6,8,10,12,15,16,17,18,
22,24,25,28,30,31,35,36
Chapter 4 1,2,4,6,8,9, 11,
12, 13, 15, 18,20,21,22,25,2
7,28,29,30,31,33,34,35,
39,40,43,44,46 Epilogue 1,**

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***2, 11 PROLOGUE Solutions
of Selected Problems 2
PROLOGUE: Problem 1
Calculate the hydraulic
capacitance of a glass tube
used in a mercury pressure
gauge. The inner diameter***

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***of the tube is 8.0 mm.
This textbook facilitates
students' ability to apply
fundamental principles and
concepts in classical
thermodynamics to solve
challenging problems***

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relevant to industry and everyday life. It also introduces the reader to the fundamentals of statistical mechanics, including understanding how the microscopic properties of

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atoms and molecules, and their associated intermolecular interactions, can be accounted for to calculate various average properties of macroscopic systems. The author

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emphasizes application of the fundamental principles outlined above to the calculation of a variety of thermodynamic properties, to the estimation of conversion efficiencies for

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work production by heat interactions, and to the solution of practical thermodynamic problems related to the behavior of non-ideal pure fluids and fluid mixtures, including

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***phase equilibria and
chemical reaction
equilibria. The book
contains detailed solutions
to many challenging sample
problems in classical
thermodynamics and***

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***statistical mechanics that
will help the reader
crystallize the material
taught. Class-tested and
perfected over 30 years of
use by nine-time Best
Teaching Award recipient***

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***Professor Daniel
Blankschtein of the
Department of Chemical
Engineering at MIT, the
book is ideal for students of
Chemical and Mechanical
Engineering, Chemistry,***

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and Materials Science, who will benefit greatly from in-depth discussions and pedagogical explanations of key concepts. Distills critical concepts, methods, and applications from

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Thermodynamics with an
Introduction to Statistical Mechanics
Essentials of Thermodynamics
Fundamentals of Chemical
Engineering Thermodynamics, SI
Edition
Thermodynamics Problem Solver

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This book results from a Special Issue related to the latest progress in the thermodynamics of machines systems and processes since the premonitory work of Carnot. Carnot invented his famous cycle and generalized the efficiency concept for thermo-mechanical engines. Since that time,

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research progressed from the equilibrium approach to the irreversible situation that represents the general case. This book illustrates the present state-of-the-art advances after one or two centuries of consideration regarding applications and fundamental aspects. The research is moving fast in

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the direction of economic and environmental aspects. This will probably continue during the coming years. This book mainly highlights the recent focus on the maximum power of engines, as well as the corresponding first law efficiency upper bounds.

- Chapter-wise & Topic-wise

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unidentified errors made by students discussed • Expert Advice- Oswaal Expert Advice on how to score more! • Oswaal QR Codes- For Quick Revision on your Mobile Phones & Tablets We hope that OSWAAL NCERT Solutions will help you at every step as you move closer to your educational goals.

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Approach your problems from the right end It isn't that they can't see the solution. It is and begin with the answers. Then one day, that they can't see the problem. perhaps you will find the final question. G. K. Chesterton.
The Scandal of Father 'The Hermit Clad in Crane Feathers' in R. Brown

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'The point of a Pin'. van GuJik's The Chinese Maze Murders. Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics. However, the "tree" of knowledge of mathematics and related fields does not grow only by putting

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forth new branches. It also happens, quite often in fact, that branches which were thought to be completely disparate are suddenly seen to be related.

Further, the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years: measure theory is used

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(non-trivially) in regional and theoretical economics; algebraic geometry interacts with physics; the Minkowsky lemma, coding theory and the structure of water meet one another in packing and covering theory; quantum fields, crystal defects and mathematical programming profit from

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homotopy theory; Lie algebras are relevant to filtering; and prediction and electrical engineering can use Stein spaces. And in addition to this there are such newemerging subdisciplines as "experimental mathematics", "CFD", "completely integrable systems", "chaos, synergetics and large-scale

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order", which are almost impossible to fit into the existing classification schemes. They draw upon widely different sections of mathematics. Problems in Undergraduate Physics Carnot Cycle and Heat Engine Fundamentals and Applications A Practical Approach for Students and

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Maintaining the substance

Page 83/179

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that made Introduction to the Thermodynamic of Materials a perennial best seller for decades, this Sixth Edition is updated to reflect the broadening field of materials science and engineering. The new edition is reorganized

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into three major sections to align the book for practical coursework, with the first (Thermodynamic Principles) and second (Phase Equilibria) sections aimed at use in a one semester undergraduate course. The third section

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(Reactions and Transformations) can be used in other courses of the curriculum that deal with oxidation, energy, and phase transformations. The book is updated to include the role of work terms other than PV

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work (e.g., magnetic work) along with their attendant aspects of entropy, Maxwell equations, and the role of such applied fields on phase diagrams. There is also an increased emphasis on the thermodynamics of phase

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transformations and the Sixth Edition features an entirely new chapter 15 that links specific thermodynamic applications to the study of phase transformations. The book also features more than 50 new end of chapter

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**problems and more than 50
new figures.**

**A natural complement to the
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same authors, this book
contains solutions to 370
existing and new problems,
many with illustrations, and**

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**updated Tables of Data on
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Studies. Energy Studies
considers the various options
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thermal and solar photovoltaic energy. And should the nuclear option remain open? The book examines the environmental implications and economic viability of all fossil and renewable sources, introduces

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more distant future options of geothermal energy and nuclear fusion, and discusses a near-future energy strategy. A much-needed, up-to-date guide on conventional and alternative power generation This book goes beyond the

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traditional methods of power generation. It introduces the many recent innovations on the production of electricity and the way they play a major role in combating global warming and improving the efficiency of generation. It

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contains a strong analytical approach to underpin the theory of power plants—for those using conventional fuels, as well as those using renewable fuels—and looks at the problems from a unique environmental engineering

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perspective. The book also includes numerous worked examples and case studies to demonstrate the working principles of these systems. Conventional and Alternative Power Generation: Thermodynamics, Mitigation

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and Sustainability is divided into 8 chapters that comprehensively cover: thermodynamic systems; vapor power cycles, gas power cycles, combustion; control of particulates; carbon capture and storage; air pollution

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undergraduate course in engineering thermodynamics, and uses carefully chosen worked examples and problems to expose students to diverse applications of thermodynamics. This new edition has been revised and

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updated to include two new chapters on thermodynamic property relations, and the statistical interpretation of entropy. Problems with numerical answers are included at the end of each chapter. As a guide,

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calculations.

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Written by IITians, foreword by Dr HC Verma and appreciated by students as well as teachers. Two IITian have worked together to provide a high quality Physics problem book to Indian students. It is an indispensable collection of previous 41 years IIT questions and their illustrated solutions for any serious aspirant. The

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provides thorough coverage of pressure, work and heat, energy, entropy, first and second laws, ideal gas processes, vapor refrigeration cycles, mixtures, and solutions. For students in engineering, physics, and chemistry.

College Physics, Volume 1

Solutions Manual for The Dynamics of

Page 116/179

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Heat

Engineering Thermodynamics

Introduction to Thermodynamics

Conventional and Alternative Power
Generation

Although the basic theories of
thermodynamics are adequately
covered by a number of existing

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texts, there is little literature that addresses more advanced topics. In this comprehensive work the author redresses this balance, drawing on his twenty-five years of experience of teaching thermodynamics at undergraduate and postgraduate level, to produce a definitive text to

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cover thoroughly, advanced syllabuses. The book introduces the basic concepts which apply over the whole range of new technologies, considering: a new approach to cycles, enabling their irreversibility to be taken into account; a detailed study of combustion to show how the

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chemical energy in a fuel is converted into thermal energy and emissions; an analysis of fuel cells to give an understanding of the direct conversion of chemical energy to electrical power; a detailed study of property relationships to enable more sophisticated analyses to be made of

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both high and low temperature plant and irreversible thermodynamics, whose principles might hold a key to new ways of efficiently covering energy to power (e.g. solar energy, fuel cells). Worked examples are included in most of the chapters, followed by exercises with solutions.

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By developing thermodynamics from an explicitly equilibrium perspective, showing how all systems attempt to reach a state of equilibrium, and the effects of these systems when they cannot, the result is an unparalleled insight into the more advanced considerations when converting any

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form of energy into power, that will prove invaluable to students and professional engineers of all disciplines.

As the title implies, this book provides an introduction to thermodynamics for students on degree and HND courses in engineering. These

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courses are placing increased emphasis on business, design, management, and manufacture. As a consequence, the direct class-time for thermodynamics is being reduced and students are encouraged to self learn. This book has been written with this in mind. The text is brief and

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to the point, with a minimum of mathematical content. Each chapter defines a list of aims and concludes with a short summary. The summary provides an overview of the key words, phrases and equations introduced within the chapter. It is recognized that students see

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thermodynamics as a problem-solving activity and this is reflected by the emphasis on the modelling of situations. As a guide to problem solving, worked examples are included throughout the book. In addition, students are encouraged to work through the problems at the end

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of each chapter, for which outline solutions are provided. There is a certain timelessness about thermodynamics because the fundamentals do not change. However, there is currently some debate over which sign convention should apply to work entering, or leaving, a

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thermodynamic system. I have retained the traditional convention of work out of a system being positive. This fits in with the concept of a heat engine as a device that takes in heat and, as a result, produces positive work.

"The Encyclopedia of Microcomputers

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serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology. Now in its 10th year of publication, this timely reference work details the broad spectrum of microcomputer technology, including microcomputer history; explains and

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illustrates the use of microcomputers throughout academe, business, government, and society in general; and assesses the future impact of this rapidly changing technology."

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and to the real world. COLLEGE PHYSICS: REASONING AND RELATIONSHIPS motivates student learning with its use of these original applications drawn from the life sciences and familiar everyday scenarios, and prepares students for the rigors of the course with a

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meant for an introductory course on Heat and Thermodynamics. Emphasis has been given to the fundamentals of thermodynamics. The book uses variety of diagrams, charts and learning aids to enable easy understanding of the s

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Energy-its discovery, its availability, its use-concerns all of us in general and the engineers of today and tomorrow in particular. The study of thermodynamics-the science of energy-is a critical element in the education of all types of

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engineers. Engineering Thermodynamics provides a thorough introduction to the art and science of engineering thermodynamics. It describes in a straightforward fashion the basic tools necessary to obtain quantitative solutions to common

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engineering applications involving energy and its conversion, conservation, and transfer. This book is directed toward sophomore, junior, and senior students who have studied elementary physics and calculus and who are majoring in

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mechanical engineering; it serves as a convenient reference for other engineering disciplines as well. The first part of the book is devoted to basic thermodynamic principles, essentially presented in the classic way; the second part applies these principles to

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many situations, including air conditioning and the interpretation of statistical phenomena.

Statistical mechanics is concerned with defining the thermodynamic properties of a macroscopic sample in terms of

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the properties of the microscopic systems of which it is composed. The previous book Introduction to Statistical Mechanics provided a clear, logical, and self-contained treatment of equilibrium statistical mechanics starting from Boltzmann's two

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statistical assumptions, and presented a wide variety of applications to diverse physical assemblies. An appendix provided an introduction to non-equilibrium statistical mechanics through the Boltzmann equation and its extensions. The coverage

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in that book was enhanced and extended through the inclusion of many accessible problems. The current book provides solutions to those problems. These texts assume only introductory courses in classical and quantum mechanics, as well as familiarity

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with multi-variable calculus and the essentials of complex analysis. Some knowledge of thermodynamics is also assumed, although the analysis starts with an appropriate review of that topic. The targeted audience is first-year graduate students and

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advanced undergraduates, in physics, chemistry, and the related physical sciences. The goal of these texts is to help the reader obtain a clear working knowledge of the very useful and powerful methods of equilibrium statistical mechanics and to

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enhance the understanding and appreciation of the more advanced texts.

Essentials of Thermodynamics offers a fresh perspective on classical thermodynamics and its explanation of natural phenomena. It combines

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fundamental principles with applications to offer an integrated resource for students, teachers and experts alike. The essence of classic texts has been distilled to give a balanced and in-depth treatment, including a detailed history of ideas which

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explains how thermodynamics evolved without knowledge of the underlying atomic structure of matter. The principles are illustrated by a vast range of applications, such as osmotic pressure, how solids melt and liquids boil, the incredible race to

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reach absolute zero, and the modern theme of the renormalization group. Topics are handled using a variety of techniques, which helps readers see how concepts such as entropy and free energy can be applied to many situations, and in

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diverse ways. The book has a large number of solved examples and problems in each chapter, as well as a carefully selected guide to further reading. The treatment of traditional topics like the three laws of thermodynamics, Carnot cycles, Clapeyron equation,

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phase equilibria, and dilute solutions is considerably more detailed than usual. For example, the chapter on Carnot cycles discusses exotic cases like the photon cycle along with more practical ones like the Otto, Diesel and Rankine cycles. There

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is a chapter on critical phenomena that is modern and yet highly pedagogical and contains a first principles calculation of the critical exponents of Van der Waals systems. Topics like entropy constants, surface

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thermodynamics, and
superconducting phase
transitions are explained in depth
while maintaining accessibility
for different readers.

Second Edition

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Solver) software with scripted solutions to selected text problems.

A brand new book, FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS makes the abstract subject

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of chemical engineering thermodynamics more accessible to undergraduate students. The subject is presented through a problem-solving inductive (from specific

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to general) learning approach, written in a conversational and approachable manner. Suitable for either a one-semester course or two-semester sequence in the

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subject, this book covers thermodynamics in a complete and mathematically rigorous manner, with an emphasis on solving practical engineering problems. The

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approach taken stresses
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strategies. FUNDAMENTALS
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examples to frame the importance of the material. Each topic begins with a motivational example that is investigated in context to that topic. This framing

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of the material is helpful to all readers, particularly to global learners who require big picture insights, and hands-on learners who struggle with

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exploring alternatives to coal- and oil-based energy conversion methods and published more than ten years ago), Thermodynamics and Heat Power, Eighth Edition updates the status

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of existing direct energy conversion methods as described in the previous work. Offering a systems approach to the analysis of energy conversion methods, this text focuses

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