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# **Applied Thermodynamics Eastop Solution 5th Edition**

Many heat transfer  
problems are time

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dependent. Such unsteady or transient problems typically arise when the boundary conditions of a system are changed. For example, if the surface temperature of a system is

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altered, the temperature at each point in the system will also begin to change. The changes will continue to occur until a steady state temperature distribution is reached.

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Consider a hot metal  
billet that is removed  
from a furnace and exposed  
to a cool air stream.  
Energy is transferred by  
convection and radiation  
from its surface to the

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surroundings. Energy transfer by conduction also occurs from the interior of the metal to the surface, and the temperature at each point in the billet decreases

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until a steady state condition is reached. The final properties of the metal will depend significantly on the time - temperature history that results from heat

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transfer. Controlling the heat transfer is one key to fabricating new materials with enhanced properties. The author's objective in this textbook is to develop procedures

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for determining the time dependence of the temperature distribution within a solid during a transient process, as well as for determining heat transfer between the solid



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and its surroundings. The nature of the procedure depends on assumptions that may be made for the process. If, for example, temperature gradients within the solid may be

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neglected, a comparatively simple approach, termed the lumped capacitance method or negligible internal resistance theory, may be used to determine the variation of

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temperature with time. The entire book has been thoroughly revised and a large number of solved examples and additional unsolved problems have been added. This book

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contains comprehensive treatment of the subject matter in simple and direct language. The book comprises eight chapters. All chapters are saturated with much needed text

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supported and by simple  
and self-explanatory  
examples.

This is the 15th annual  
edition of the  
Bibliography of Nautical  
Books, a reference guide

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to over 14,000 nautical  
publications. It deals  
specifically with the year  
2000.

Volume 5.

Positive Displacement  
Machines

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Fundamentals of Chemical  
Engineering Thermodynamics  
Basic Engineering  
Thermodynamics  
Thermofluids  
Applied Chemical  
Engineering Thermodynamics

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Engineering Thermodynamics  
Through Examples  
Molecular Driving Forces,  
Second Edition E-book is  
an introductory  
statistical thermodynamics  
text that describes the



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principles and forces that drive chemical and biological processes. It demonstrates how the complex behaviors of molecules can result from a few simple physical

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processes, and how simple models provide surprisingly accurate insights into the workings of the molecular world. Widely adopted in its First Edition, Molecular

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Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts. The Second Edition includes two brand

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new chapters: (1)

"Microscopic Dynamics"

introduces single molecule  
experiments; and (2)

"Molecular Machines"

considers how nanoscale  
machines and engines work.

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"The Logic of  
Thermodynamics" has been  
expanded to its own  
chapter and now covers  
heat, work, processes,  
pathways, and cycles. New  
practical applications,

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examples, and end-of-  
chapter questions are  
integrated throughout the  
revised and updated text,  
exploring topics in  
biology, environmental and  
energy science, and

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nanotechnology. Written in a clear and reader-friendly style, the book provides an excellent introduction to the subject for novices while remaining a valuable

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resource for experts.

A revised edition of the well-received thermodynamics text, this work retains the thorough coverage and excellent organization that made the



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first edition so popular.  
Now incorporates  
industrially relevant  
microcomputer programs,  
with which readers can  
perform sophisticated  
thermodynamic

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calculations, including calculations of the type they will encounter in the lab and in industry. Also provides a unified treatment of phase equilibria. Emphasis is on

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analysis and prediction of  
liquid-liquid and vapor-  
liquid equilibria,  
solubility of gases and  
solids in liquids,  
solubility of liquids and  
solids in gases and

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supercritical fluids,  
freezing point depressions  
and osmotic equilibria, as  
well as traditional vapor-  
liquid and chemical  
reaction equilibria.  
Contains many new

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illustrations and  
exercises.

This Book Presents A  
Systematic Account Of The  
Concepts And Principles Of  
Engineering Thermodynamics  
And The Concepts And

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Practices Of Thermal  
Engineering. The Book  
Covers Basic Course Of  
Engineering Thermodynamics  
And Also Deals With The  
Advanced Course Of Thermal  
Engineering. This Book

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Will Meet The Requirements  
Of The Undergraduate  
Students Of Engineering  
And Technology Undertaking  
The Compulsory Course Of  
Engineering  
Thermodynamics. The

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Subject Matter Of Book Is  
Sufficient For The  
Students Of Mechanical Eng  
ineering/Industrial-  
Production Engineering,  
Aeronautical Engineering,  
Undertaking Advanced



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Courses In The Name Of  
Thermal Engineering/Heat  
Engineering/ Applied  
Thermodynamics Etc.  
Presentation Of The  
Subject Matter Has Been  
Made In Very Simple And

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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

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Questions With Answers.  
Advanced Thermodynamics  
Engineering, Second  
Edition

Moran's Principles of  
Engineering Thermodynamics  
Applied Thermodynamics for

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Engineering Technologists  
Cumulative Book Index  
Hydrogen Energy  
Modern Design Innovations  
and Tools  
Thermofluids, while a  
relatively modern term,

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is applied to the well-established field of thermal sciences, which is comprised of various intertwined disciplines. Thus mass, momentum, and heat transfer constitute

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the fundamentals of thermofluids. This book discusses thermofluids in the context of thermodynamics, single- and two-phase flow, as well as heat transfer

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associated with single-  
and two-phase flows.  
Traditionally, the field  
of thermal sciences is  
taught in univer- ties  
by requiring students to  
study engineering

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thermodynamics, fluid mechanics, and heat transfer, in that order. In graduate school, these topics are discussed at more advanced levels. In



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recent years, however, there have been attempts to in- grate these topics through a unified approach. This approach makes sense as thermal design of widely varied

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systems ranging from hair dryers to semiconductor chips to jet engines to nuclear power plants is based on the conservation equations of mass, momentum,

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angular momentum, energy, and the second law of thermodynamics. While integrating these topics has recently gained popularity, it is hardly a new approach.

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For example, Bird,  
Stewart, and Lightfoot  
in Transport Phenomena,  
Rohsenow and Choi in  
Heat, Mass, and Momentum  
Transfer, El- Wakil, in  
Nuclear Heat Transport,

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and Todreas and Kazimi  
in Nuclear Systems have  
pursued a similar  
approach. These books,  
however, have been  
designed for advanced  
graduate level courses.

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More recently,  
undergraduate books  
using an integral  
approach are appearing.  
The laws of  
thermodynamics have wide  
ranging practical

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applications in all  
branches of engineering.  
This invaluable textbook  
covers all the subject  
matter in a typical  
undergraduate course in  
engineering

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



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and updated to include two new chapters on thermodynamic property relations, and the statistical interpretation of entropy. Problems with

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numerical answers are included at the end of each chapter. As a guide, instructors can use the examples and problems in tutorials, quizzes and

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examinations. Request

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the undergraduate and

graduate student of

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with the basic  
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methodology and the  
references he needs to  
apply it in industrial  
practice. Thus, in

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addition to the  
classical topics of the  
laws of  
thermodynamics, pure  
component and mixture  
thermodynamic properties  
as well as phase and

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chemical equilibria the  
reader will find: -  
history of  
thermodynamics - energy  
conservation -  
intermolecular forces  
and molecular

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thermodynamics - cubic  
equations of state -  
statistical mechanics. A  
great number of  
calculated problems with  
solutions and an  
appendix with numerous

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tables of numbers of practical importance are extremely helpful for applied calculations.

The computer programs on the included disk help the student to become



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familiar with the  
typical methods used in  
industry for volumetric  
and vapor-liquid  
equilibria calculations.

Mechanics of Fluids  
From Concepts to

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Applications, Second  
Edition

The British National  
Bibliography

Thermodynamics

NPTEL Notes

Thermal Physics

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Providing a foundation in heat and mass transport, this book covers engineering principles of heat and mass transfer. The author discusses biological content, context, and parameter regimes and supplies practical applications for biological and

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biomedical engineering, industrial food processing, environmental control, and waste management. The book contains end-of-chapter problems and sections highlighting key concepts and important terminology It offers cross-references for easy access to related

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areas and relevant formulas, as well as detailed examples of transport phenomena, and descriptions of physical processes. It covers mechanisms of diffusion, capillarity, convection, and dispersion.

A steam/thermal power station uses

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heat energy generated from burning coal to produce electrical energy. ... From the turbine the steam is cooled back to water in the Condenser, the resulting water is fed back into the boiler to repeat the cycle.

There are many thermodynamics texts

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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

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for subsequent, more advanced topics.

The book presents a logical methodology for solving problems in the context of conservation laws and property tables or equations. The authors elucidate the terms around which thermodynamics has historically



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developed, such as work, heat, temperature, energy, and entropy. Using a pedagogical approach that builds from basic principles to laws and eventually corollaries of the laws, the text enables students to think in clear and correct thermodynamic terms

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as well as solve real engineering problems. For those just beginning their studies in the field, Thermodynamics, Second Edition provides the core fundamentals in a rigorous, accurate, and accessible presentation.

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Fundamentals of Thermodynamics  
Thermodynamics and Kinetics, Second  
Edition  
Engineering Thermodynamics with  
Worked Examples  
Nuclear Energy for Hydrogen  
Generation through Intermediate Heat

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Exchangers

Engineering Thermofluids

An Integrated Approach to

Thermodynamics and Fluid Mechanics

Principles

This text is concerned with the  
methods in which different types

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of energy are converted from one form to another. In particular, the book examines why so many of the energy conversion processes which involve heat have a low efficiency rating.

This book describes the

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challenges and solutions the energy sector faces by shifting towards a hydrogen based fuel economy. The most current and up-to-date efforts of countries and leaders in the automotive sector are reviewed as they

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strive to develop technology and find solutions to production, storage, and distribution challenges. Hydrogen fuel is a zero-emission fuel when burned with oxygen and is often used with electrochemical cells, or

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combustion in internal engines, to power vehicles and electric devices. This book offers unique solutions to integrating renewable sources of energy like wind or solar power into the production of hydrogen fuel,



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making it a cost effective,  
efficient and truly renewable  
alternative fuel.

In this book fluid mechanics and  
thermodynamics (F&T) are  
approached as interwoven, not  
disjoint fields. The book starts by

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analyzing the creeping motion around spheres at rest: Stokes flows, the Oseen correction and the Lagerstrom-Kaplun expansion theories are presented, as is the homotopy analysis. 3D creeping flows and

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rapid granular avalanches are treated in the context of the shallow flow approximation, and it is demonstrated that uniqueness and stability deliver a natural transition to turbulence modeling at the zero, first order

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closure level. The difference-quotient turbulence model (DQTM) closure scheme reveals the importance of the turbulent closure schemes' non-locality effects. Thermodynamics is presented in the form of the first

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and second laws, and irreversibility is expressed in terms of an entropy balance. Explicit expressions for constitutive postulates are in conformity with the dissipation inequality. Gas dynamics offer a

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first application of combined F&T. The book is rounded out by a chapter on dimensional analysis, similitude, and physical experiments.

Fluid and Thermodynamics  
Statistical Thermodynamics in

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Biology, Chemistry, Physics, and  
Nanoscience

Thermodynamics, Fluid

Mechanics, and Heat Transfer

Bibliography of Nautical Books

Thermodynamics and Statistical

Mechanics for Scientists and

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Engineers

Thermal Engineering

Advanced Thermodynamics

Engineering, Second Edition is  
designed for readers who need to  
understand and apply the  
engineering physics of  
thermodynamic concepts. It



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employs a self-teaching format that reinforces presentation of critical concepts, mathematical relationships, and equations with concrete physical examples and explanations of applications—to help readers apply principles to their own real-world problems.

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Less Mathematical/Theoretical Derivations—More Focus on Practical Application Because both students and professionals must grasp theory almost immediately in this ever-changing electronic era, this book—now completely in decimal outline format—uses a

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phenomenological approach to problems, making advanced concepts easier to understand. After a decade teaching advanced thermodynamics, the authors infuse their own style and tailor content based on their observations as professional

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engineers, as well as feedback from their students. Condensing more esoteric material to focus on practical uses for this continuously evolving area of science, this book is filled with revised problems and extensive tables on thermodynamic properties and

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other useful information. The authors include an abundance of examples, figures, and illustrations to clarify presented ideas, and additional material and software tools are available for download. The result is a powerful, practical instructional tool that gives

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readers a strong conceptual foundation on which to build a solid, functional understanding of thermodynamics engineering. Positive Displacement Machines: Modern Design Innovations and Tools explains the design and workings of a wide range of

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positive displacement pumps, compressors and gas expanders. Written at a mathematical and technical level, the book explores the most influential research in this field over the past decade, along with industry best practices. Sections highlight the importance

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of using the latest computation techniques and discuss how to follow the proper design procedures to achieve a desired outcome. Explains how these machines work on a fundamental level, helping the reader build a holistic understanding which aids



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complex problem- solving

Describes how to mathematically  
model the performance of pumps,  
compressors and gas expanders

Provides advice on how to design  
and optimize positive displacement  
machines to match a given  
application

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This book covers the fundamentals of thermodynamics required to understand electrical power generation systems, honing in on the application of these principles to nuclear reactor power systems. It includes all the necessary information regarding the

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fundamental laws to gain a complete understanding and apply them specifically to the challenges of operating nuclear plants. Beginning with definitions of thermodynamic variables such as temperature, pressure and specific volume, the book then explains the

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laws in detail, focusing on pivotal concepts such as enthalpy and entropy, irreversibility, availability, and Maxwell relations. Specific applications of the fundamentals to Brayton and Rankine cycles for power generation are considered in-

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depth, in support of the book ' s  
core goal- providing an  
examination of how the  
thermodynamic principles are  
applied to the design, operation  
and safety analysis of current and  
projected reactor systems.  
Detailed appendices cover metric

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and English system units and conversions, detailed steam and gas tables, heat transfer properties, and nuclear reactor system descriptions.

Molecular Driving Forces

Biological and Bioenvironmental

Heat and Mass Transfer

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Whitaker's Five-year Cumulative  
Book List

Encyclopedia of Automotive  
Engineering

With Applications to Chemical  
Processes

Paperbacks in Print

This book describes recent

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technological developments in next generation nuclear reactors that have created renewed interest in nuclear process heat for industrial applications. The author's discussion mirrors the industry's emerging focus on



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combined cycle Next Generation Nuclear Plants' (NGNP) seemingly natural fit in producing electricity and process heat for hydrogen production. To utilize this process heat, engineers must uncover a thermal device that can transfer

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the thermal energy from the NGNP to the hydrogen plant in the most performance efficient and cost effective way possible. This book is written around that vital quest, and the author describes the usefulness of the

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Intermediate Heat Exchanger (IHX) as a possible solution. The option to transfer heat and thermal energy via a single-phase forced convection loop where fluid is mechanically pumped between the heat exchangers at the

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nuclear and hydrogen plants is presented, and challenges associated with this tactic are discussed. As a second option, heat pipes and thermosyphons, with their ability to transport very large quantities of heat over

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relatively long distance with small temperature losses, are also examined.

A standard introductory text on thermodynamics for undergraduates in mechanical, aeronautical, chemical,

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environmental, and energy engineering, engineering science, and other studies in which thermodynamics and related topics are an important part of the curriculum. The emphasis throughout is on the applications

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of theory to real processes and plants. This edition (4th was 1986) is stylistically recast, and revised throughout to emphasize the effective use of energy resources and the need to protect the environment. Copublished with

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The Clear, Well-Organized  
Introduction to Thermodynamics  
Theory and Calculations for All  
Chemical Engineering



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Undergraduate Students This text is designed to make thermodynamics far easier for undergraduate chemical engineering students to learn, and to help them perform thermodynamic calculations with

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confidence. Drawing on his award-winning courses at Penn State, Dr. Themis Matsoukas focuses on “why” as well as “how.” He offers extensive imagery to help students conceptualize the equations, illuminating

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thermodynamics with more than 100 figures, as well as 190 examples from within and beyond chemical engineering. Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends

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thermodynamics to mixtures, emphasizing phase and chemical equilibrium. Throughout, Matsoukas focuses on topics that link tightly to other key areas of undergraduate chemical engineering, including

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separations, reactions, and capstone design. More than 300 end-of-chapter problems range from basic calculations to realistic environmental applications; these can be solved with any leading mathematical software. Coverage

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includes • Pure fluids, PVT behavior, and basic calculations of enthalpy and entropy • Fundamental relationships and the calculation of properties from equations of state • Thermodynamic analysis of

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chemical processes • Phase diagrams of binary and simple ternary systems • Thermodynamics of mixtures using equations of state • Ideal and nonideal solutions • Partial miscibility, solubility of gases and

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solids, osmotic processes •

Reaction equilibrium with  
applications to single and  
multiphase reactions

Part 1: Engines - Fundamentals

Thermodynamics In Nuclear  
Power Plant Systems



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World List of Books in English  
Chemical Engineering  
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*Moran's Principles of Engineering Thermodynamics, SI Version, continues to offer a comprehensive and rigorous treatment of classical thermodynamics, while retaining an engineering perspective. With concise, applications-oriented*

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*discussion of topics and self-test problems, this book encourages students to monitor their own learning. This classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics, heat transfer and*

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*statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering. This edition is revised with additional examples and end-of-chapter problems to increase student*

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*comprehension.*

*In Thermal Physics:  
Thermodynamics and Statistical  
Mechanics for Scientists and  
Engineers, the fundamental laws of  
thermodynamics are stated precisely  
as postulates and subsequently*

*connected to historical context and developed mathematically. These laws are applied systematically to topics such as phase equilibria, chemical reactions, external forces, fluid-fluid surfaces and interfaces, and anisotropic crystal-fluid*

*interfaces. Statistical mechanics is presented in the context of information theory to quantify entropy, followed by development of the most important ensembles: microcanonical, canonical, and grand canonical. A unified*

*treatment of ideal classical, Fermi, and Bose gases is presented, including Bose condensation, degenerate Fermi gases, and classical gases with internal structure. Additional topics include paramagnetism, adsorption on*



*dilute sites, point defects in crystals, thermal aspects of intrinsic and extrinsic semiconductors, density matrix formalism, the Ising model, and an introduction to Monte Carlo simulation. Throughout the book, problems are posed and solved to*

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*illustrate specific results and  
problem-solving techniques.*

*Includes applications of interest to  
physicists, physical chemists, and  
materials scientists, as well as  
materials, chemical, and  
mechanical engineers Suitable as a*

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*textbook for advanced  
undergraduates, graduate students,  
and practicing researchers Develops  
content systematically with  
increasing order of complexity Self-  
contained, including nine  
appendices to handle necessary*

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*background and technical details  
In keeping with previous editions,  
this book offers a strong conceptual  
approach to fluids, based on  
mechanics principles. The author  
provides rigorous coverage of  
underlying math and physics*

*principles, and establishes clear links between the basics of fluid flow and subsequent advanced topics like compressible flow and viscous fluid flow.*

*A Renewable Source of Energy*

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*Chemical and Engineering*

*Thermodynamics*

*Challenges and Solutions for a*

*Cleaner Future*

*Second Edition*

*Steam Power Engineering*

*Completely revised and*

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*updated, Elements of  
Environmental Engineering:  
Thermodynamics and  
Kinetics, Second Edition  
covers the applications of  
chemical thermodynamics  
and kinetics in*

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*environmental processes.*

*Each chapter has been  
rewritten and includes new  
examples that better  
illuminate the theories  
discussed. An excellent  
introduction to*



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*environmental engineering,  
this reference stands  
alone in its multimedia  
approach to fate and  
transport modeling and in  
pollution control design  
options. Clearly and*

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*lucidly written, it  
provides extensive tables,  
figures, and data that  
make it the reference to  
have on this subject.  
Applied Thermodynamics for  
Engineering*

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*Technologists Longman  
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