

Thermodynamics - Example Problems

Problems and Solutions

1 Examining a Power Plant

Consider a power plant. At point 1 the working gas has a temperature of $T = 25^\circ\text{C}$. The pressure is 1bar and the mass flow is $\dot{m} = 2\text{kg/s}$. After point 1, the air enters a compressor, at which the pressure is increased to 6 bar. (This is point 2.) After this, the flow is heated to $T_3 = 700^\circ\text{C}$. (This is stage 3.) Afterwards, the flow goes through a turbine, at which the pressure is decreased to 1bar again. (This is stage 4.) The flow is then cooled to $T_1 = 25^\circ\text{C}$. We're now back in stage 1.

We assume that:

1. air behaves like a thermally and calorically perfect gas with $C_p = 1004\text{J/kg K}$, $R = 287\text{J/kg K}$ and $\gamma = 1.4$.
2. the isentropic efficiency of the compressor is 0.88.
3. the polytropic efficiency of the turbine is 0.85.

Answer the following questions.

1. Depict the evolution of the cycle in the $T - s$ plane.
2. Determine the net power.
3. Determine the heat received from the hot source.
4. Determine the thermal efficiency of the power plant.
5. Determine the Carnot efficiency associated with the present power plant and compare it with the previous result.
6. Verify the first principle.

1 Solution

1. Let's draw the $T - s$ graph. We start by drawing two lines of constant pressure. (This can be seen in the graph below.)

We now start at point 1. At this point the pressure and temperature are low. When we go to point 2, we don't go straight up, since the process is not isentropic. Instead, we go up and slightly right as well, until we reach the line $p = 6\text{bar}$. We then have found point 2.

The heating takes place under constant pressure. So from point 2 to point 3 we stay on the isobaric line $p = 6\text{bar}$. This goes on until we reach $T = 973\text{K}$. This is the position of point 3.

The turbine isn't isentropic either. So from point 3 we don't go straight down. Instead, we go down and a bit to the right as well, until we reach the line $p = 1\text{bar}$. This is point 4.

From point 4 we return to point 1. Since the cooling occurs at constant pressure, we do this without leaving the line $p = 1\text{bar}$.

Thermodynamic Example Problems

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Shapiro, Daisy D. Boettner, Margaret
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Thermodynamic Example Problems:

Thermodynamics Problem Solving in Physical Chemistry Kathleen E. Murphy, 2020-03-23 *Thermodynamics Problem Solving in Physical Chemistry Study Guide and Map* is an innovative and unique workbook that guides physical chemistry students through the decision making process to assess a problem situation create appropriate solutions and gain confidence through practice solving physical chemistry problems The workbook includes six major sections with 20 30 solved problems in each section that span from easy single objective questions to difficult multistep analysis problems Each section of the workbook contains key points that highlight major features of the topic to remind students of what they need to apply to solve problems in the topic area Key Features Provides instructor access to a visual map depicting how all equations used in thermodynamics are connected and how they are derived from the three major energy laws Acts as a guide in deriving the correct solution to a problem Illustrates the questions students should ask themselves about the critical features of the concepts to solve problems in physical chemistry Can be used as a stand alone product for review of Thermodynamics questions for major tests

Thermodynamics 1 With No Calculations Edenilson Brandl, Have you ever wanted to understand thermodynamics without getting lost in complex calculations This book provides a clear intuitive approach to one of the most important scientific fields making it accessible to students professionals and curious minds alike By focusing on concepts rather than equations it offers a fresh and engaging way to learn how energy works in the world around us Whether you're a beginner looking for an introduction or an expert seeking a new perspective this book will give you the tools to grasp the principles of thermodynamics with ease With real world examples simple explanations and insightful discussions you will walk away with a deeper appreciation of how thermodynamics shapes our daily lives and the technologies we rely on Don't let complex mathematics stand in the way of understanding thermodynamics Dive into this book and discover how energy heat and entropy govern everything from the engines that power our world to the fundamental processes of nature Get your copy today and unlock the secrets of thermodynamics in the simplest way possible

Introduction to the Thermodynamics of Materials David R. Gaskell, David E. Laughlin, 2017-08-15 Maintaining the substance that made *Introduction to the Thermodynamics 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 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 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 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 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 problems and more than 50 new figures

Modern Engineering Thermodynamics Robert Balmer, 2011-01-25 Modern Engineering Thermodynamics is designed for use in a standard two semester engineering thermodynamics course sequence The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs The text has numerous features that are unique among engineering textbooks including historical vignettes critical thinking boxes and case studies All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical Over 200 worked examples and more than 1 300 end of chapter problems provide opportunities to practice solving problems related to concepts in the text Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics Helps students develop engineering problem solving skills through the use of structured problem solving techniques Introduces the Second Law of Thermodynamics through a basic entropy concept providing students a more intuitive understanding of this key course topic Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems offer students extensive opportunity to practice solving problems Historical Vignettes Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet Available online testing and assessment component helps students assess their knowledge of the topics Email textbooks elsevier com for details

Fundamentals of Engineering Thermodynamics Michael J. Moran, Howard N. Shapiro, Daisie D. Boettner, Margaret B. Bailey, 2018-05-14 Fundamentals of Engineering Thermodynamics sets the standard for teaching students how to be effective problem solvers Integrated throughout this product are real world applications that emphasize the relevance of thermodynamic principles to some of the most critical problems and issues of today These include a wealth of coverage on topics related to energy and the environment biomedical bioengineering and emerging technologies The Enhanced E Text is also available bundled with an abridged print companion and can be ordered by contacting customer service here ISBN 9781119456285 Price 130 95 Canadian Price 114 95

Nonequilibrium Thermodynamics Yasar Demirel, 2007-10-10 Natural phenomena consist of simultaneously occurring transport processes and chemical reactions These processes may interact with each other and lead to instabilities fluctuations and evolutionary systems This book explores the unifying role of thermodynamics in natural phenomena Nonequilibrium Thermodynamics Second Edition analyzes the transport processes of energy mass and momentum transfer processes as well as chemical reactions It considers various processes occurring simultaneously and provides students with more realistic analysis and modeling by accounting possible interactions between them This second edition updates and expands on the first edition by focusing on the balance equations of mass momentum

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Engineering Applications of Higher Mathematics: Problems on thermodynamics Vladimir Karapetoff,1916

Thermodynamics Problem Solving in Physical Chemistry Kathleen E. Murphy,2020-03-23 *Thermodynamics Problem Solving in Physical Chemistry Study Guide and Map* is an innovative and unique workbook that guides physical chemistry students through the decision making process to assess a problem situation create appropriate solutions and gain confidence through practice solving physical chemistry problems The workbook includes six major sections with 20 30 solved problems in each section that span from easy single objective questions to difficult multistep analysis problems Each section of the workbook contains key points that highlight major features of the topic to remind students of what they need to apply to solve problems in the topic area Key Features Provides instructor access to a visual map depicting how all equations used in thermodynamics are connected and how they are derived from the three major energy laws Acts as a guide in deriving the correct solution to a problem Illustrates the questions students should ask themselves about the critical features of the concepts to solve problems in physical chemistry Can be used as a stand alone product for review of Thermodynamics questions for major tests

Thermodynamics and the Design, Analysis, and Improvement of Energy Systems, 1992

American Society of Mechanical Engineers. Winter Annual Meeting,1992 Problems in Applied Thermodynamics Colin

Bodsworth,A. S. Appleton,1965 **Notes on Elementary Thermodynamics** Theodore Howard Taft,1926 Interactive

Thermodynamics V1.5 with User's Manual Michael J. Moran,Howard N. Shapiro,Intellipro, Inc.,Ron M. Nelson,1998-08-13

Fundamentals of Classical Thermodynamics Gordon J. Van Wylen,Richard E. Sonntag,Claus Borgnakke,1994 A bestselling textbook this edition features a fresh two color design expanded problem sections with over 50% new design applications updated content areas and new computer aided thermodynamics software included with each copy **Report of the**

Conference on Thermodynamics and National Energy Problems, June 10-12, 1974, Airlie House, Warrenton,

Virginia ,1974 *Conference on Thermodynamics and National Energy Problems, Warrenton, Va., 1974* ,1975 *Practice*

Problems for the Environmental Engineering PE Exam Michael R. Lindeburg,2001 The environmental PE exam is growing in popularity as more engineers seek licensing in this discipline This eight hour open book exam offered every April and

October consists of 80 multiple choice problems Our Environmental Engineering Reference Manual is the core text examinees need to prepare for and use during the exam It reviews the current exam topics clearly and concisely and is replete with examples and practice problems reinforcing important concepts Complete solutions to these problems are found in the Practice Problems book which examinees can use to learn or refresh solving skills Step by step solutions to all the practice problems in the Environmental Engineering Reference Manual **Fundamentals of Engineering**

Thermodynamics John R. Howell, Richard O. Buckius, 1992 *Thermodynamics* William Z. Black, James G. Hartley, 1996
The third edition of Thermodynamics provides an easily understandable presentation of classical thermodynamics that builds on the student's background of energy concepts first learned in physics and chemistry The material is organized in a logical progression from the conservation of mass the conservation of energy and the second law The engineering perspective is retained and a variety of familiar examples are used so that the student can appreciate how thermodynamics affects a broad range of subjects The authors continue to emphasize a systematic approach to problem solving and that approach is used in all example problems in the text This problem solving method provides not only a reasonable way to approach the task of solving thermodynamics problems but it also will serve the student in other engineering and science disciplines Each example is worked in detail and particular attention has been given to the proper use of units and unit conversions in the solutions Detailed explanations accompany the simplifications when the general equations are reduced to the forms that apply to special cases so that the student will gain a better understanding of the conservation principles as well as greater awareness of these powerful analytical tools Examples address the questions of which form of the conservation laws should be used and why certain assumptions can be applied to simplify the solutions Believing that second law analysis should play a major role in the analysis of engineering problems the authors provide extensive coverage of the second law of thermodynamics The development of the second law is similar to that used for the introduction of the conservation of mass and energy The results of the second law are carried over into subsequent chapters where they are applied to thermodynamic systems such as power and refrigeration cycles as well as air conditioning processes **Thermodynamics** William Z. Black, James G. Hartley, 1991 Disc contains Programs used to generate values contained in tables for properties of steam refrigerant 12 and air plus other low pressure gases are available on disc disc contains property software that is menu driven and can be used to evaluate properties in either SI or English units Examples in Thermodynamics Problems W. R. Crawford, 1937

Thermodynamic Example Problems Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Thermodynamic Example Problems**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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