

Since the satellite has a surface area $4\pi r^2$ and a uniform temperature T it must radiate power

$$4\pi r^2 \sigma T^4 \epsilon.$$

At equilibrium the absorbed and radiated powers must be equal, so

$$r^2 \Omega \sigma T_s^4 \epsilon = 4\pi r^2 \sigma T^4 \epsilon,$$

which can be rearranged to give

$$T = T_s \left(\frac{\Omega}{4\pi} \right)^{1/4}.$$

- Taking $\Omega = 7 \times 10^{-5}$ sr and $T_s = 5800$ K gives $T = 280$ K.

[This problem gives a simplified understanding of the Earth's mean temperature, since the Sun subtends a mean solid angle of 6.80×10^{-5} sr at the Earth.]

Problem 172

A frictionless piston of mass m is a precise fit in the vertical cylindrical neck of a large container of volume V . The container is filled with a gas and there is a vacuum above the piston. The cross-sectional area of the neck is A .

(i) Calculate the pressure of the gas in the container when the piston is in equilibrium.

(ii) Assuming that the pressure and volume of the gas are related by Boyle's law, calculate the restoring force on the piston when it is displaced by a small distance x .

(iii) Assuming that the motion of the piston is slow enough for Boyle's law to be valid, obtain the differential equation for small displacements of the piston about its equilibrium position.

(iv) Show that the angular frequency of oscillation ω is independent of m .

(v) Calculate ω for $V = 2000$ litres and $A = 1.0 \times 10^{-4}$ m².

Solution

- (i) The weight of the piston is mg , and this must be balanced by the upward force pA exerted by the gas pressure, so $p = mg/A$.
 (ii) Boyle's law states that pV is constant at constant temperature.

Thermodynamic Example Problems

P. E. Liley



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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 *Engineering Thermodynamics With Worked Examples (Second Edition)* Nihal E Wijesundera, 2016-11-25 The laws of thermodynamics have wide ranging practical applications in all branches of engineering This invaluable textbook covers all the subject matter in a typical 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 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 instructors can use the examples and problems in tutorials quizzes and examinations

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 **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

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Engineering Thermodynamics D.C. Look, G. Alexander, 2012-12-06 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 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 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 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 many situations including air conditioning and the interpretation of statistical phenomena

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Advanced Thermodynamics Engineering Kalyan Annamalai, Ishwar K. Puri, Milind A. Jog, 2011-03-22 Advanced Thermodynamics Engineering Second Edition is designed for readers who need to understand and apply the engineering physics of thermodynamic concepts It employs a self teaching format that reinforces presentation of critical concepts mathematical relationships and equations with concrete physical examples and explanations of application

Thermodynamics and Energy Conversion Henning Struchtrup, 2024-06-27 This comprehensive textbook covers engineering thermodynamics from beginner to advanced level The presentation is concise with material for about three full term university courses on 700 pages without compromising breadth or depth First and second law of thermodynamics are developed from everyday observations with accessible and rational arguments The laws of thermodynamics are applied to a multitude of systems and processes from simple equilibration processes over steam and gas power cycles refrigerators and

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Statistical Thermodynamics John W. Daily, 2018-12-20 Clearly connects macroscopic and microscopic thermodynamics and explains non equilibrium behavior in kinetic theory and chemical kinetics

Physical and Chemical Equilibrium for Chemical Engineers Noel de Nevers, 2012-03-20 This book concentrates on the topic of physical and chemical equilibrium Using the simplest mathematics along with numerous numerical examples it accurately and rigorously covers physical and chemical equilibrium in depth and detail It continues to cover the topics found in the first edition however numerous updates have been made including Changes in naming and notation the first edition used the traditional names for the Gibbs Free Energy and for Partial Molal Properties this edition uses the more popular Gibbs Energy and Partial Molar Properties changes in symbols the first edition used the Lewis Randal fugacity rule and the popular symbol for the same quantity this edition only uses the popular notation and new problems have been added to the text Finally the second edition includes an appendix about the Bridgman table and its use

Practical Chemical Thermodynamics for Geoscientists Bruce Fegley, Rose Osborne, 2013 Presents brief historical summaries and biographies of key thermodynamics scientists alongside the fundamentals they were responsible for

[An Introduction to Equilibrium Thermodynamics](#) Bernard Morrill, 2013-10-22 An Introduction to Equilibrium Thermodynamics discusses classical thermodynamics and irreversible thermodynamics It introduces the laws of thermodynamics and the connection between statistical concepts and observable macroscopic properties of a thermodynamic system Chapter 1 discusses the first law of thermodynamics while Chapters 2 through 4 deal with statistical concepts The succeeding chapters describe the link between entropy and the reversible heat process concept

of entropy the second law of thermodynamics Legendre transformations and Jacobian algebra Finally Chapter 10 provides an introduction to irreversible thermodynamics This book will be useful as an introductory text to thermodynamics for engineering students *Extended Irreversible Thermodynamics* D. Jou,J. Casas-Vazquez,G. Lebon,2011-06-27 Covers a wide spectrum of applications and contains a wide discussion of the foundations and the scope of the most current theories of non equilibrium thermodynamics The new edition reflects new developments and contains a new chapter on the interplay between hydrodynamics and thermodynamics *Thermodynamics* Ibrahim Dincer,2020-08-12 Presents a unique stepwise exergy based approach to thermodynamic concepts systems and applications Thermodynamics A Smart Approach redefines this crucial branch of engineering as the science of energy and exergy rather than the science of energy and entropy to provide an innovative step by step approach for teaching understanding and practicing thermodynamics in a clearer and easier way Focusing primarily on the concepts and balance equations this innovative textbook covers exergy under the second law of thermodynamics discusses exergy matters and relates thermodynamics to environmental impact and sustainable development in a clear simple and understandable manner It aims to change the way thermodynamics is taught and practiced and help overcome the fear of thermodynamics Author Ibrahim Dincer a pioneer in the areas of thermodynamics and sustainable energy technologies draws upon his multiple decades of experience teaching and researching thermodynamics to offer a unique exergy based approach to the subject Enabling readers to easily comprehend and apply thermodynamic principles the text organizes thermodynamics into seven critical steps property state process cycle first law of thermodynamics second law of thermodynamics and performance assessment and provides extended teaching tools for systems and applications Precise student friendly chapters cover fundamental concepts thermodynamic laws conventional and innovative power and refrigeration cycles and more This textbook Covers a unique approach in teaching design analysis and assessment of thermodynamic systems Provides lots of examples for every subject for students and instructors Contains hundreds of illustrations figures and tables to better illustrate contents Includes many conceptual questions and study problems Features numerous systems related examples and practical applications Thermodynamics A Smart Approach is an ideal textbook for undergraduate students and graduate students of engineering and applied science as well researchers scientists and practicing engineers seeking a precise and concise textbook and or reference work

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