

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

Josiah Willard Gibbs



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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 *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 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

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