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

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

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

$$r^2\Omega\sigma T_S^4\varepsilon=4\pi r^2\sigma T^4\varepsilon,$$

which can be rearranged to give

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

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

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Thermodynamic Example Problems

Kathleen E. Murphy

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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 **Engineering Thermodynamics With** Worked Examples (Second Edition) Nihal E Wijeysundera, 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 guizzes and examinations Modern Engineering Thermodynamics - Textbook with Tables Booklet Robert T. Balmer, 2011-01-03 Modern Engineering Thermodynamics Textbook with Tables Booklet offers a problem solving approach to basic and applied engineering thermodynamics with historical vignettes critical thinking boxes and case studies throughout to help relate

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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 **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 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 **Thermodynamics For Dummies** Michael Pauken, 2025-03-17 The thermodynamics knowledge you need to succeed in class and in your career

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