

**SOLUTIONS**  
**THERMODYNAMICS PRACTICE PROBLEMS FOR NON-TECHNICAL MAJORS**

**Thermodynamic Properties**

1. If an object has a weight of 10 lbf on the moon, what would the same object weigh on Jupiter?

$$g_{\text{Jupiter}} = 75 \frac{\text{ft}}{\text{sec}^2} \quad g_{\text{Moon}} = 5.4 \frac{\text{ft}}{\text{sec}^2} \quad g_c = 32 \frac{\text{lbm-ft}}{\text{lbf-sec}^2}$$

$$|W| = \frac{mg}{g_c} \Rightarrow m = \frac{|W|_{\text{Moon}} g_c}{g_{\text{Moon}}} = \frac{10 \times 32}{5.4} = 59.26 \text{ lbm}$$

$$|W|_{\text{Jupiter}} = \frac{mg_{\text{Jupiter}}}{g_c} = \frac{59.26 \times 75}{32} = \boxed{139 \text{ lbf}}$$

2. An object that weighs 50 lbf on earth is moved to Saturn where its new weight is 105 lbf. What is the acceleration due to gravity on Saturn?

$$g_{\text{Earth}} = 32 \frac{\text{ft}}{\text{sec}^2} \quad g_c = 32 \frac{\text{lbm-ft}}{\text{lbf-sec}^2}$$

$$50 \text{ lbf on earth} \Rightarrow 50 \text{ lbm}$$

$$|W| = \frac{mg}{g_c} \Rightarrow g = \frac{|W| g_c}{m} = \frac{105 \times 32}{50} = \boxed{67.2 \frac{\text{ft}}{\text{sec}^2}}$$

3. Define, using equations, specific volume ( $v$ ) and density ( $\rho$ ). What is the mathematical relationship between these two terms?

$$v = \frac{V}{m}, \quad \rho = \frac{m}{V}, \quad v = \frac{1}{\rho} \text{ or } \rho = \frac{1}{v}$$

**Temperature and Pressure Measurements**

4. (a) Define temperature.  
(b) What is the absolute temperature scale corresponding to Fahrenheit?  
(c) Convert 100° F to that absolute scale.

(a) Temperature: a measure of molecular activity of a substance.

(b) Rankine

(c) °R = °F + 460  $\Rightarrow$  100° F converts to 560° R

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**Arshad Iqbal**



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*Fundamentals of Physics* David Halliday, Robert Resnick, Jearl Walker, 2010-03-15 This book arms engineers with the tools to apply key physics concepts in the field A number of the key figures in the new edition are revised to provide a more inviting and informative treatment The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas Material from The Flying Circus is incorporated into the chapter opener puzzlers sample problems examples and end of chapter problems to make the subject more engaging Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read Sample Problems also demonstrate how engineers can solve problems with reasoned solutions INCLUDES PARTS 1 4 PART 5 IN

FUNDAMENTALS OF PHYSICS EXTENDED      **The Role of Fluids in Crustal Processes** National Research Council, Division on Engineering and Physical Sciences, Commission on Geosciences, Environment and Resources, Geophysics Study Committee, 1990-01-01 Water and other fluids play a vital role in the processes that shape the earth's crust possibly even influencing earthquakes and volcanism Fluids affect the movement of chemicals and heat in the crust and they are the major factor in the formation of hydrothermal ore deposits Yet fluids have been overlooked in many geologic investigations The Role of Fluids in Crustal Processes addresses this lack of attention with a survey of what experts know about the role of fluids in the Earth's crust and what future research can reveal The overview discusses factors that affect fluid movement and the coupled equations that represent energy and mass transport processes chemical reactions and the relation of fluids to stress distribution      *Introduction to Materials Science for Engineers* James F. Shackelford, 2005 Accompanying CD ROM contains materials science software image and video galleries articles solutions to practice problems links to societies and schools and supplemental materials disc label      Mathematical Challenges from Theoretical/Computational Chemistry Committee on Mathematical Challenges from Computational Chemistry, Commission on Physical Sciences, Mathematics, and Applications, Division on Engineering and Physical Sciences, National Research Council, 1995-04-12 Computational methods are rapidly becoming major tools of theoretical pharmaceutical materials and biological chemists Accordingly the mathematical models and numerical analysis that underlie these methods have an increasingly important and direct role to play in the progress of many areas of chemistry This book explores the research interface between computational chemistry and the mathematical sciences In language that is aimed at non specialists it documents some prominent examples of past successful cross fertilizations between the fields and explores the mathematical research opportunities in a broad cross section of chemical research frontiers It also discusses cultural differences between the two fields and makes recommendations for overcoming those differences and generally promoting this interdisciplinary work      International Aerospace Abstracts , 1999      *Chemical Engineering* Rajaram K. Prabhudesai, 2004 Chemical Engineering Sample Exams offers the most complete set of sample exams available with step by step solutions to every problem in the book It is a superb reference guide and it provides ample practice for the exams including the new breadth depth exams      *Mathematical Reviews* , 2004      Problems in Thermodynamics and Statistical Physics Peter T. Landsberg, 2014-06-10 Well respected widely used volume presents problems and full solutions related to a wide range of topics in thermodynamics statistical physics statistical mechanics Suitable for undergraduates and graduate students self study reference 1989 edition

**Government Reports Announcements & Index** , 1993-11      **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**

**Problem Solver** The Editors of REA, Ralph Pike, 2013-01-01. REA's Thermodynamics Problem Solver. Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical and more informative, these study aids are the best review books and textbook companions available. They're perfect for undergraduate and graduate studies. This highly useful reference provides thorough coverage of pressure work and heat energy, entropy, first and second laws, ideal gas processes, vapor refrigeration cycles, mixtures and solutions. For students in engineering, physics and chemistry. **Government Reports Annual Index**, 1993. *Problems And Solutions On Thermodynamics And Statistical Mechanics* Yung-kuo Lim, 1990-02-01. The material for these volumes has been selected from the past twenty years examination questions for graduate students at University of California at Berkeley, Columbia University, the University of Chicago, MIT, State University of New York at Buffalo, Princeton University and University of Wisconsin. **Solved Problems in Thermodynamics and Statistical Physics** Gregor Skačej, Primož Zihlerl, 2019-11-09. This book contains a modern selection of about 200 solved problems and examples arranged in a didactic way for hands on experience with course work in a standard advanced undergraduate first year graduate class in thermodynamics and statistical physics. The principles of thermodynamics and equilibrium statistical physics are few and simple but their application often proves more involved than it may seem at first sight. This book is a comprehensive complement to any textbook in the field emphasizing the analogies between the different systems and paves the way for an in depth study of solid state physics, soft matter physics and field theory. **Problems And Solutions On Thermodynamics And Statistical Mechanics (Second Edition)** Swee Cheng Lim, Choy Heng Lai, Leong-chuan Kwek, 2021-11-18. This volume is a compilation of carefully selected questions at the PhD qualifying exam level including many actual questions from Columbia University, University of Chicago, MIT, State University of New York at Buffalo, Princeton University, University of Wisconsin and the University of California at Berkeley over a twenty year period. Topics covered in this book include the laws of thermodynamics, phase changes, Maxwell Boltzmann statistics and kinetic theory of gases. This latest edition has been updated with more problems and solutions and the original problems have also been modernized, excluding outdated questions and emphasizing those that rely on

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*Thermodynamics* Ryōgo Kubo, 1968

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