

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 (ρ). 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

Thermodynamics Sample Problems With Solutions

Albert A Gayle



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Table of Contents Thermodynamics Sample Problems With Solutions

1. Understanding the eBook Thermodynamics Sample Problems With Solutions
 - The Rise of Digital Reading Thermodynamics Sample Problems With Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics Sample Problems With Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Thermodynamics Sample Problems With Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics Sample Problems With Solutions
 - Personalized Recommendations
 - Thermodynamics Sample Problems With Solutions User Reviews and Ratings
 - Thermodynamics Sample Problems With Solutions and Bestseller Lists

5. Accessing Thermodynamics Sample Problems With Solutions Free and Paid eBooks
 - Thermodynamics Sample Problems With Solutions Public Domain eBooks
 - Thermodynamics Sample Problems With Solutions eBook Subscription Services
 - Thermodynamics Sample Problems With Solutions Budget-Friendly Options
6. Navigating Thermodynamics Sample Problems With Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Thermodynamics Sample Problems With Solutions Compatibility with Devices
 - Thermodynamics Sample Problems With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thermodynamics Sample Problems With Solutions
 - Highlighting and Note-Taking Thermodynamics Sample Problems With Solutions
 - Interactive Elements Thermodynamics Sample Problems With Solutions
8. Staying Engaged with Thermodynamics Sample Problems With Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermodynamics Sample Problems With Solutions
9. Balancing eBooks and Physical Books Thermodynamics Sample Problems With Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermodynamics Sample Problems With Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Thermodynamics Sample Problems With Solutions
 - Setting Reading Goals Thermodynamics Sample Problems With Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Thermodynamics Sample Problems With Solutions
 - Fact-Checking eBook Content of Thermodynamics Sample Problems With Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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