

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

Hussin A.Rothana



Thermodynamics Sample Problems With Solutions:

Unveiling the Magic of Words: A Review of "**Thermodynamics Sample Problems With Solutions**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Thermodynamics Sample Problems With Solutions**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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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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