

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 Practice Problems Solutions Pltw

Ian Pickup



Thermodynamics Practice Problems Solutions Pltw:

This book delves into Thermodynamics Practice Problems Solutions Pltw. Thermodynamics Practice Problems Solutions Pltw is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Thermodynamics Practice Problems Solutions Pltw, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Thermodynamics Practice Problems Solutions Pltw
- Chapter 2: Essential Elements of Thermodynamics Practice Problems Solutions Pltw
- Chapter 3: Thermodynamics Practice Problems Solutions Pltw in Everyday Life
- Chapter 4: Thermodynamics Practice Problems Solutions Pltw in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Thermodynamics Practice Problems Solutions Pltw. The first chapter will explore what Thermodynamics Practice Problems Solutions Pltw is, why Thermodynamics Practice Problems Solutions Pltw is vital, and how to effectively learn about Thermodynamics Practice Problems Solutions Pltw.
3. In chapter 2, the author will delve into the foundational concepts of Thermodynamics Practice Problems Solutions Pltw. The second chapter will elucidate the essential principles that must be understood to grasp Thermodynamics Practice Problems Solutions Pltw in its entirety.
4. In chapter 3, the author will examine the practical applications of Thermodynamics Practice Problems Solutions Pltw in daily life. This chapter will showcase real-world examples of how Thermodynamics Practice Problems Solutions Pltw can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Thermodynamics Practice Problems Solutions Pltw in specific contexts. The fourth chapter will explore how Thermodynamics Practice Problems Solutions Pltw is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Thermodynamics Practice Problems Solutions Pltw. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Thermodynamics Practice Problems Solutions Pltw.

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