

# ANSWER KEY

## Kinetic Energy Practice Problems

1. What is the Kinetic Energy of a 150 kg object that is moving with a speed of 15 m/s?

$$KE = \frac{1}{2} mv^2$$

$$KE = \frac{1}{2} (150\text{kg}) (15 \text{ m/s})^2$$

$$KE = ?$$

$$KE = \frac{1}{2} (150\text{kg})(225)$$

$$m = 150\text{kg}$$

$$KE = 16875\text{J}$$

$$v = 15\text{m/s}$$

2. An object has a kinetic energy of 25 J and a mass of 34 kg. how fast is the object moving?

$$KE = \frac{1}{2} mv^2$$

$$2KE/m = v^2 \text{ OR } v^2 = 2KE/m$$

$$KE = 25\text{J}$$

$$v^2 = 2(25\text{J})/34\text{kg}$$

$$m = 34\text{kg}$$

$$\sqrt{v^2} = \sqrt{1.47}$$

$$v = ?$$

$$v = 1.28\text{m/s}$$

3. An object moving with a speed of 35 m/s and has a kinetic energy of 1500 J. what is the mass of the object.

$$KE = \frac{1}{2} mv^2$$

$$2KE/v^2 = m \text{ OR } m = 2KE/v^2 \text{ (rearrange equation)}$$

$$KE = 1500\text{J}$$

$$m = 2(1500\text{J})/(35)^2$$

$$m = ?$$

$$m = 3,000/1225$$

$$v = 35\text{m/s}$$

$$m = 2.45\text{kg}$$

4. What is the Kinetic Energy of a 1000 kg object that is moving with a speed of 24 m/s?

$$KE = \frac{1}{2} mv^2$$

$$KE = \frac{1}{2} (1000\text{kg}) (24 \text{ m/s})^2$$

$$m = 1000\text{kg}$$

$$KE = 144000\text{J}$$

$$v = 24\text{m/s}$$

$$KE = 144000\text{J}$$

5. An object has a kinetic energy of 1000 J and a mass of 50 kg. how fast is the object moving?

$$KE = \frac{1}{2} mv^2$$

$$2KE/m = v^2 \text{ OR } v^2 = 2KE/m$$

$$KE = 1000\text{J}$$

$$m = 50\text{kg}$$

$$v = ?$$

$$v = 14.14\text{m/s}$$

$$m = 50\text{kg}$$

$$KE = 1000\text{J}$$

# Answers Key Energy Machines Problems

**Carl Bernard Smith**

## **Answers Key Energy Machines Problems:**

Proceedings of the Third ICMDS'24: Machine Learning, Inverse Problems and Related Fields Amine Laghrib,Abdelghani Ghazdali,2025-06-11 This book offers innovative insights into the integration of machine learning and inverse problems showcasing cutting edge methodologies that enhance computational efficiency and accuracy By leveraging artificial intelligence optimization techniques and high performance computing it addresses complex challenges across various scientific and industrial domains The contributions featured in this book encompass theoretical advancements and practical applications highlighting diverse topics such as data driven approaches uncertainty quantification and algorithmic innovations This interdisciplinary collection is designed for researchers practitioners and students interested in the transformative potential of informatics and computational sciences By presenting meticulously reviewed papers from the Third International Conference on Mathematical and Computational Sciences ICMDS 2024 this issue serves as a valuable resource for fostering further research and development inspiring new approaches to solving pressing problems through advanced computational methods

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*Field Effect Devices* Robert F. Pierret,1990 The second edition examines in detail three of the most basic members of the field device family to introduce the reader to relevant terms concepts models and analytical procedures

*Fundamentals of Physics, Part 3, Chapters 22 - 33, Enhanced Problems Version* David Halliday,Robert Resnick,2002-04-16 The primary goal of this text is to provide students with a solid understanding of fundamental physics concepts and to help them apply this

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