

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?

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

$$KE = ?$$

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

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

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

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

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

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

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

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

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

$$v = ?$$

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

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

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

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

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.

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

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

$$m = ?$$

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

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

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

$$m = 3,000/1225$$

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

4. What is the Kinetic Energy of a 1200 kg object that is moving with a speed of 24 m/s?

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

$$KE = ?$$

$$m = 1200\text{kg}$$

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

$$KE = \frac{1}{2} (1200\text{kg}) (24\text{m/s})^2$$

$$KE = \frac{1}{2} (1200\text{kg}) (576)$$

$$KE = 345600\text{J}$$

5. An object has a kinetic energy of 1500 J and a mass of 17kg. how fast is the object moving?

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

$$KE = 150\text{J}$$

$$m = 17\text{kg}$$

$$v = ?$$

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

$$v^2 = 2(150\text{J})/17\text{kg}$$

$$v^2 = 17.6$$

$$v = 4.2\text{m/s}$$

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

Using STEM to Investigate Issues in Managing Waste, Grades 5 - 8 Barbara R. Sandall, Ed.D., Abha Singh, 2011-01-03 Connect students in grades 5 and up with science with Using STEM to Investigate Issues in Managing Waste STEM Science Technology Engineering and Mathematics is an initiative designed to interest students in specific career fields In this 128 page book students use science inquiry and integrated activities solve real world problems and explore careers in waste management The book includes topics such as solid waste product life cycle composting packaging and landfill construction It supports National Science Education Standards and NCTM and ITEA standards and aligns with state national and Canadian provincial standards

Forum for Applied Research and Public Policy, 1993 *Solutions!*, 2005 Advances in Production Management Systems: Innovative and Knowledge-Based Production Management in a Global-Local World Bernard Grabot, Bruno Vallespir, Gomes Samuel, Abdelaziz Bouras, Dimitris Kiritsis, 2014-08-26 The three volumes IFIP AICT 438 439 and 440 constitute the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2014 held in Ajaccio France in September 2014 The 233 revised full papers were carefully reviewed and selected from 271 submissions They are organized in 6 parts knowledge discovery and sharing knowledge based planning and scheduling knowledge based sustainability knowledge based services knowledge based performance improvement and case studies

IEEE International Electric Machines and Drives Conference Record, 1997 **Machine Design**, 1995 New Technical Books New York Public Library, 1973

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

conceptual understanding to quantitative problem solving Changing Times ,1973 *First Annual Workshop on Space Operations Automation and Robotics (SOAR 87)* ,1987 *Water Treatment Plant Operation* ,1983 *El-Hi Textbooks in Print* ,1977 **Information Processing** ,1977 **Proceedings of the Gateway Energy Conference ...** ,
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