

Bryan-Science 8
Homework assignment – Answer key

Energy Calculations Worksheet

1. A shot putter heaves a 7.26kg shot with a final velocity of 7.5m/s. What is the kinetic energy of the shot?

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$E_k = \frac{1}{2} \cdot 7.26\text{kg} \cdot (7.5\text{m/s})^2$$

$$E_k = 204.18 \text{ J}$$

2. What is the final velocity of a 5700kg truck, if 2 200 000J of energy is used to accelerate it?

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$2200000 = \frac{1}{2} \cdot 5700 \text{ kg} \cdot v^2$$

$$2200000 = 2850 \cdot v^2$$

$$2200000/2850 = v^2$$

$$v^2 = 771.93$$

$$v = 27.78\text{m/s}$$

3. A 2kg textbook is lifted from the floor to a shelf 2.10m above the floor.

- (a) What is the gravitational potential energy of the book relative to the floor?

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 2.1\text{m}$$

$$E_p = 19.6 \cdot 2.1$$

$$E_p = 41.16 \text{ J}$$

- (b) What is its gravitational potential energy relative to the head of a 1.65m tall person?

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 1.65\text{m}$$

$$E_p = 2 \cdot 16.17$$

$$E_p = 32.34 \text{ J}$$

4. A bike rider approaches a hill with a speed of 8.5m/s. The total mass of the rider and the bike is 85kg.

- (a) Find the kinetic energy of the bike and rider.

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$E_k = \frac{1}{2} \cdot 85 \text{ kg} \cdot 8.5^2 \text{ m/s}$$

$$E_k = 32.5 \cdot (8.5\text{m/s})^2$$

$$E_k = 3070.63 \text{ J}$$

- (b) The rider coasts up the hill. Assuming there is no friction, at what height will the bike come to a stop?

$$3070.63 = 85 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot h$$

$$3070.63 = 833 \cdot h$$

$$3070.63/833 = h$$

$$h = 3.69\text{m}$$

Physical Science 233 Power Answers

**Michael L. McKinney, Robert M.
Schoch, Logan Yonavjak, Grant Mincy**

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Chemical News and Journal of Physical Science William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1888

Nuclear Science Abstracts ,1976-06 **The Role of Mathematics in Physical Sciences** Giovanni Boniolo,Paolo Budinich,Majda Trobok,2005-07-22 Even though mathematics and physics have been related for centuries and this relation appears to be unproblematic there are many questions still open Is mathematics really necessary for physics or could physics exist without mathematics Should we think physically and then add the mathematics apt to formalise our physical intuition or should we think mathematically and then interpret physically the obtained results Do we get mathematical objects by

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Fuel Cells Noriko Hikosaka Behling, 2012-12-31 Fuel Cells Current Technology Challenges and Future Research Needs is a one of a kind definitive reference source for technical students researchers government policymakers and business leaders Here in a single volume is a thorough review of government corporate and research institutions policies and programs related to fuel cell development and the effects of those programs on the success or failure of fuel cell initiatives The book describes specific internal corporate and academic R D activities levels of investment strategies for technology acquisition and reasons for success and failure This volume provides an overview of past and present initiatives to improve and commercialize fuel cell technologies as well as context and analysis to help potential investors assess current fuel cell commercialization activities and future prospects Crucially it also gives top executive policymakers and company presidents detailed policy recommendations on what should be done to successfully commercialize fuel cell technologies Provides a clear and unbiased picture of current fuel cell research programs Outlines future research needs Offers concrete policy recommendations

Chemical News and Journal of Industrial Science, 1903

Survey of Physical Science for College Students Paul McCorkle, 1938

Answer Book National Geographic Society (U.S.), 2009 Covers everything from earth sciences to astronomy from climate and habitats to human arts and cultures from ancient history to cutting edge technology and descriptions flags and statistics of all the countries in the world

Environmental Science: Systems and Solutions Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, Grant Mincy, 2017-12-01 Putting the Science Back into the Environment What is the big picture in environmental science Our authors know and effectively communicate it in Environmental Science Systems and Solutions Sixth Edition Whether you view the subject through a scientific social political or historical lens you ll find the concrete foundations here that work for courses in both environmental science and environmental studies A systems approach is the connective fabric that makes sense of the wealth of topics and data which demonstrates how aspects of the natural environment interconnect with each other and with human society A section on Resource Use and Management introduces the concept of sustainability and another on Dealing with Environmental Degradation discusses threats to the environment and mitigation strategies A bonus section available online on Social Solutions to Environmental Concerns discusses the complex issues impacting the environment and the scientific technologic and human behavioral ways to address them Throughout the text you will find the hard data necessary for a scientific study of the environment and the measured analysis ideal for our time Combining evidence based contemporary information and data with relevant case studies practical applications numerous calculations and modern references Environmental Science Systems and Solutions teaches and engages Each new print copy includes

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