

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

John Dewey



Physical Science 233:

ARS Directory United States. Agricultural Research Service, 1974 Questions on Natural Science and the Harmonic Philosophy John Emmett Richardson, 1913 Chromatography of Natural, Treated and Waste Waters T.R Crompton, 2003-05-22 Chromatography of Natural Treated and Waste Waters is the first book to bring together information of a range of chromatographic techniques in all types of water precipitation to sewage effluents Organic and inorganic compounds cations anions and elements are all discussed Particular attention is paid to multi compound analysis of water and the analysis of minute traces of pollutants Gas chromatography high performance liquid chromatography and mass spectrometry are included in this well referenced and easy to use book Organic Compounds in Natural Waters T Roy Crompton, 2013-09-23 The potential health hazards that might arise from the presence of organic substances in water are a matter of increasing concern to the water industry environmentalists and the general public alike This comprehensive reference draws together and systematises the vast body of information available on the occurrence and determination of organic substances in natural waters Organic Compounds in Natural Waters provides a comprehensive description of organic substances in waters Methods are provided in broad outline with guidance on their applicability their comparative advantages and disadvantages possible interferences sensitivity and detection levels The book is an essential reference for analytical chemists working in industry water utilities government non government organisations and regulatory agencies and environmental analytical consultants **Hearings, Reports and Prints of the House Committee on Science and Astronautics** United States. Congress. House. Committee on Science and Astronautics, 1967 **Directory of Awards** National Science Foundation (U.S.). Directorate for Science and Engineering Education, 1986 **Occupations of Federal White-collar Workers** , 1957 Soft Computing in Chemical and Physical Sciences Kanchan Sarkar, Sankar Prasad Bhattacharyya, 2017-11-06 This book can be regarded as Soft computing for physicists and chemists self taught It prepares the readers with a solid background of soft computing and how to adapt soft computing techniques to problem solving in physical and chemical research Soft computing methods have been little explored by researchers in physical and chemical sciences primarily because of the absence of books that bridge the gap between the traditional computing paradigm pursued by researchers in science and the new soft computing paradigm that has emerged in computer science This book is the interface between these primary sources and researchers in physics and chemistry **Physics for Beginners: A Study Guide** Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books

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Table of Contents Physical Science 233

1. Understanding the eBook Physical Science 233
 - The Rise of Digital Reading Physical Science 233
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science 233
 - 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 Physical Science 233
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science 233
 - Personalized Recommendations
 - Physical Science 233 User Reviews and Ratings
 - Physical Science 233 and Bestseller Lists

-
5. Accessing Physical Science 233 Free and Paid eBooks
 - Physical Science 233 Public Domain eBooks
 - Physical Science 233 eBook Subscription Services
 - Physical Science 233 Budget-Friendly Options
 6. Navigating Physical Science 233 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science 233 Compatibility with Devices
 - Physical Science 233 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science 233
 - Highlighting and Note-Taking Physical Science 233
 - Interactive Elements Physical Science 233
 8. Staying Engaged with Physical Science 233
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science 233
 9. Balancing eBooks and Physical Books Physical Science 233
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science 233
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science 233
 - Setting Reading Goals Physical Science 233
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science 233
 - Fact-Checking eBook Content of Physical Science 233
 - 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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