

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

LP Steffe



Physical Science 233:

ARS Directory United States. Agricultural Research Service, 1974 **Questions on Natural Science and the Harmonic Philosophy** John Emmett Richardson, 1913 **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 abstraction from real objects or vice versa Why is mathematics effective into physics These are all relevant questions whose answers are necessary to fully understand the status of physics particularly of contemporary physics The aim of this book is to offer plausible answers to such questions through both historical analyses of relevant cases and philosophical analyses of the relations between mathematics and physics *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 **Digest of Education Statistics** , 2006 Contains information on a variety of subjects within the field of education statistics including the number of schools and colleges enrollments teachers graduates educational attainment finances Federal funds for education libraries international education and research and development *The Junior College and Education in the Sciences* National Science Foundation (U.S.), 1967 *Academic Science,*

Graduate Enrollment and Support, 1980 *Federal Funds for Education* Penrose B. Jackson, Dolores A. Steinhilber, 1962

Polymers in Energy Conversion and Storage Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Tariq A.

Altalhi, 2022-06-28 The research and development activities in energy conversion and storage are playing a significant role in our daily lives owing to the rising interest in clean energy technologies to alleviate the fossil fuel crisis. Polymers are used in energy conversion and storage technology due to their low cost, softness, ductility, and flexibility compared to carbon and inorganic materials. *Polymers in Energy Conversion and Storage* provides in-depth literature on the applicability of polymers in energy conversion and storage, history, and progress, fabrication techniques, and potential applications. Highly accomplished experts review current and potential applications including hydrogen production, solar cells, photovoltaics, water splitting, fuel cells, supercapacitors, and batteries. Chapters address the history and progress, fabrication techniques, and many applications within a framework of basic studies, novel research, and energy applications. Additional features include: Explores all types of energy applications based on polymers and its composites; Provides an introduction and essential concepts tailored for the industrial and research community; Details historical developments in the use of polymers in energy applications; Discusses the advantages of polymers as electrolytes in batteries and fuel cells. This book is an invaluable guide for students, professors, scientists, and R & D industrial experts working in the field. The Palgrave Handbook of Asia Pacific Higher Education

Christopher S. Collins, Molly N.N. Lee, John N. Hawkins, Deane E. Neubauer, 2016-10-06 This volume seeks to identify and explore the forces affecting higher education in the Asia Pacific region today. It includes a set of conceptually rich organizing chapters followed by detailed country-specific studies that detail both the underlying dynamics of these forces and the manner in which they have affected specific countries. In this way, the chapters touch on the complex demographics of the region, how continued and continuous economic development impinges on higher education, and how neoliberalism has affected higher education across many dimensions. The volume also addresses the complex issues associated with cross-border education and the daunting challenges of both national and cross-national quality assurance. **Academic Science, Scientists and Engineers**, 1979

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