

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 Answer Key

Karin Nielsen-Saines



Physical Science 233 Power Answer Key:

Physical Science ,2015-03-16 Physical Science for grades 5 to 12 is designed to aid in the review and practice of physical science topics Physical Science covers topics such as scientific measurement force and energy matter atoms and elements magnetism and electricity The book includes realistic diagrams and engaging activities to support practice in all areas of physical science The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series is aligned to current science standards **AEC News Release** ,1963 **Climate Change 2013: The Physical Science Basis**

Intergovernmental panel on climate change. Working group 1,2014 The report also provides a comprehensive assessment of past and future sea level change in a dedicated chapter **The Chemical News and Journal of Physical Science** ,1897

Resources in Education ,1989 Basic Mathematics for the Physical Sciences Haym Kruglak,John T. Moore,1963

Selected Proceedings from the 233rd ECS Meeting Seattle, WA - Spring 2018 J. H. Ahn,R. Akolkar,M. S. Arnold,P.

Atanassov,M. Bayachou,S. Bhansali,J. L. Blackburn,C. Bock,A. A. Boghossian,P. Broekmann,J. D. Burgess,S. Calabrese Barton,M. T. Carter,V. Chaitanya,G. T. Cheek,B. A. Chin,J. -W. Choi,Y. -L. Chueh,D. E. Cliffl,A. C. Co,U. Cvelbar,T. DaRos,S. De Gendt,V. Di Noto,M. Doeff,S. K. Doorn,M. Engelhardt,J. Fergus,B. S. Flavel,T. Fukushima,N. Gaillard,L. Gaines,W. Gao,Y. Gogotsi,D. A. Heller,A. M. Herring,P. J. Hesketh,D. W. Hess,H. Imahori,M. Itagaki,H. Iwai,C. S. Johnson,N. Jux,K. M. Kadish,P. V. Kamat,K. Karan,Z. Karim,A. Khosla,S. -W. Kim,J. E. Koehne,P. J. Kulesza,A. Kusoglu,J. J. Lee,O. Leonte,L. J. Li,M. Manivannan,R. A. Mantz,S. Maruyama,P. Mascher,Y. S. Meng,E. L. Miller,S. D. Minter,D. Misra,T. P. Moffat,S. Mukerjee,K. Murakoshi,W. E. Mustain,L. A. Nagahara,S. R. Narayan,M. Navaei,T. V. Nguyen,J. D. Nicholas,Y. S. Obeng,C. O'Dwyer,B. Ohtani,F. E. Osterloh,S. J. Paddison,R. Paolesse,F. Papadimitrakopoulos,N. H. Perry,P. Pharkya,J. F. Rohan,S. V. Rotkin,C. Salthouse,P. K. Sekhar,M. Shao,Y. Shao-Horn,A. Simonian,D. K. Smith,L. Soleymani,N. Solladie,G. R. Stafford,J. A. Staser,J. St-Pierre,P. Strasser,V. R. Subramanian,V. Subramanian,K. B. Sundaram,M. K. Sunkara,A. H. Suroviec,K. Swider-Lyons,M. Tao,E. J. Taylor,T. Torimoto,T. Torres,S. Vaddiraju,R. I. Stefan-van Staden,J. T. Vaughey,P. M. Vereecken,S. Virtanen,H. Wang,W. Wang,R. Warren,A. Z. Weber,R. B. Weisman,J. Whitacre,B. Wiley,G. Wu,N. Wu,C. Xiong,H. Xu,S. Xu,J. Yang,P. Zelenay,K. Zhao,M. Zheng,2018-07-13 Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11

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Systems Thomas H. Lee, Shoji Shiba, Robert Chapman Wood, 1999-11-02 Based on a profoundly important six year study by the Center for the Quality of Management CQM Integrated Management Systems shows how successful organizations accomplish something unbelievably powerful Creating their own particular ways of executing the scientific method The authors worked with the cooperation of some of America s largest companies Teradyne Hewlett Packard Eastman Chemical Ritz Carlton and of non profit organizations including top hospitals and the U S Navy They were surprised to find how radically successful systems differed from one organization to the next Yet the core of each was universal Each organization had designed a system that gathered data about the organization s particular problems developed theories tested the theories and finally documented and shared the results throughout the organization Each successful organization s methods were unique much as the methods of each successful discipline within the sciences are unique But less successful organizations had nothing comparable And the processes through which the leaders in these organizations had gotten them on the right path had a great deal in common **A Complete Concordance to Science and Health** Albert Francis Conant, 1903 **Cyberpower and National Security** Franklin D. Kramer, Stuart H. Starr, Larry K. Wentz, 2009 This book creates a framework for understanding and using cyberpower in support of national security Cyberspace and cyberpower are now critical elements of international security United States needs a national policy which employs cyberpower to support its national security interests *Wireless Network Security* Yang Xiao, Xuemin Shen, Ding-Zhu Du, 2007-12-29 This book identifies vulnerabilities in the physical layer the MAC layer the IP layer the transport layer and the application layer of wireless networks and discusses ways to strengthen security mechanisms and services Topics covered include intrusion detection secure PHY MAC routing protocols attacks and prevention immunization key management secure group communications and multicast secure location services monitoring and surveillance anonymity privacy trust establishment management redundancy and security and dependable wireless networking **Research in Education**, 1974 *Treatise on Geophysics, Volume 2* G David Price, 2010-04-20 *Treatise on Geophysics Mineral Physics Volume 2* provides a comprehensive review of the current state of understanding of mineral physics Each chapter demonstrates the significant progress that has been made in the understanding of the physics and chemistry of minerals and also highlights a number of issues which are still outstanding or that need further work to resolve current contradictions The book first reviews the current status of our understanding of the nature of the deep Earth These include the seismic properties of rocks and minerals problems of the lower mantle and the core mantle boundary and the state of knowledge on mantle chemistry and the nature and evolution of the core The discussions then turn to the theory underlying high pressure high temperature physics and the major experimental methods being developed to probe this parameter space The remaining chapters explain the specific techniques for measuring elastic and acoustic properties electronic and magnetic properties and rheological properties the nature and origin of anisotropy in the Earth the properties of melt and the magnetic and electrical properties

of mantle phases Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert *Nuclear Science Abstracts* ,1975-04 *List* ,1948 *English Mechanic and World of Science* ,1874 *Government Reports Announcements & Index* ,1991-08 *English Mechanic and Mirror of Science and Art* ,1915 *Laser Processing of Engineering Materials* John Ion,2005-03-22 The complete guide to understanding and using lasers in material processing Lasers are now an integral part of modern society providing extraordinary opportunities for innovation in an ever widening range of material processing and manufacturing applications The study of laser material processing is a core element of many materials and manufacturing courses at undergraduate and postgraduate level As a consequence there is now a vast amount of research on the theory and application of lasers to be absorbed by students industrial researchers practising engineers and production managers Written by an acknowledged expert in the field with over twenty years experience in laser processing John Ion distils cutting edge information and research into a single key text Essential for anyone studying or working with lasers *Laser Processing of Engineering Materials* provides a clear explanation of the underlying principles including physics chemistry and materials science along with a framework of available laser processes and their distinguishing features and variables This book delivers the knowledge needed to understand and apply lasers to the processing of engineering materials and is highly recommended as a valuable guide to this revolutionary manufacturing technology The first single volume text that treats this core engineering subject in a systematic manner Covers the principles practice and application of lasers in all contemporary industrial processes packed with examples materials data and analysis and modelling techniques

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