

Assessment

Chapter Test B**Teacher Notes and Answers**
Electric Forces and Fields**CHAPTER TEST B (ADVANCED)**

1. b
2. c
3. a
4. c
5. d
6. c
7. d
8. a
9. d
10. a
11. Loosely held electrons are transferred from the carpet to the socks when the socks are rubbed against the carpet. The body and socks have an excess of electrons and are negatively charged. Touching the doorknob allows the electrons to escape. The shock felt is the sudden movement of charges as the body and socks return to a neutral state.
12. Millikan discovered that charge is quantized. This means that when any object is charged, the net charge is always a multiple of a fundamental unit of charge. The fundamental unit of charge, which is the charge on the electron, is -1.60×10^{-19} C. The charge on a proton is 1.60×10^{-19} C.
13. The paper becomes charged by polarization. In this process, electrons on each molecule are repelled, and the molecule acquires a positive side near the charged object. As a result, the molecules become attracted to the charged object.
14. The negatively charged rod repels electrons from the part of the sphere nearest the rod. As a result, this part becomes deficient in electrons, thus acquiring a positive charge.
15. because the positive charge is twice the magnitude of the negative charge

16. 1.9×10^{-16} C

Given

$q_1 = q_2$

$F_{\text{electric}} = 2.37 \times 10^{-3}$ N

$r = 3.7 \times 10^{-10}$ m

$k_C = 8.99 \times 10^9$ N • m²/C²

Solution

$$F_{\text{electric}} = k_C \frac{q_1 q_2}{r^2} = \frac{k_C q^2}{r^2}$$

$$q = \sqrt{\frac{F_{\text{electric}} r^2}{k_C}} =$$

$$\sqrt{\frac{(2.37 \times 10^{-3} \text{ N})(3.7 \times 10^{-10} \text{ m})^2}{8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2}}$$

$$q = \sqrt{\frac{(2.37 \times 10^{-3} \text{ N})(1.4 \times 10^{-19} \text{ m}^2)}{8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2}}$$

$$q = 1.9 \times 10^{-16} \text{ C}$$

17. 79e

Given

$e = 1.60 \times 10^{-19}$ C

$q_a = 2e = 3.20 \times 10^{-19}$ C

$F_{\text{electric}} = 91.0$ N

$r = 2.00 \times 10^{-14}$ m

$k_C = 8.99 \times 10^9$ N • m²/C²

Solution

$$F_{\text{electric}} = k_C \frac{q_a q_{\text{Gold}}}{r^2}$$

Rearrange to solve for q_{Gold} .

$$q_{\text{Gold}} = \frac{(F_{\text{electric}}) r^2}{(k_C) q_a} =$$

$$\frac{(91.0 \text{ N})(2.00 \times 10^{-14} \text{ m})^2}{(8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(3.20 \times 10^{-19} \text{ C})} =$$

 $1.27 \times 10^{-17} \text{ C}$

$$\frac{q_{\text{Gold}}}{q_e} = \frac{1.27 \times 10^{-17} \text{ C}}{1.60 \times 10^{-19} \text{ C}} = 79.4$$

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AW Rasmussen



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Scott Foresman Science, 2008 **Teaching to Learn, Learning to Teach** Alan J. Singer, 2013-07-24 Teaching to Learn Learning to Teach uniquely addresses three problems that frequently concern pre service and beginning teachers classroom control satisfying state and federal mandates and figuring out exactly what is the role of the teacher Integrating practical theoretical and critical teaching considerations it presents a model student centered approach for designing lessons developing personal connections with students and building classroom communities PRO CLASS Practices Planning Relationships Organization Community Leadership Assessment Support Struggle Pre service teachers are encouraged to reinterpret the principles and continually redefine them as they develop their own reflective practice Changes in the Second Edition Updates throughout with attention to the Common Core State Standards high stakes testing the possibilities and limitations of technology use in the classroom and preparing for the job market Fully revised chapter on literacy New interviews with teachers Companion Website Supplemental planning teaching and assessment materials 32 extended essays including a number of the author s widely read Huffington Post columns interviews with beginning and veteran teachers Ideas for Your Professional Portfolio Resume and Cover Letter Recommended Websites for Teachers 3Ds Max 2008: A Complete Guide Cadcim, 2008-09 Training Guide Mitch Tulloch, 2014 Fully updated for Windows Server 2012 R2 Designed to help enterprise administrators develop real world job role specific skills this Training Guide focuses on deploying and managing core infrastructure services in Windows Server 2012 R2 Build hands on expertise through a series of lessons exercises and suggested practices and help maximize your performance on the job This Microsoft Training Guide Provides in depth hands on training you take at your own pace Focuses on job role specific expertise for deploying and managing core infrastructure services Creates a foundation of skills which along with on the job experience can be measured by Microsoft Certification exams such as 70 410 Topics include Preparing for Windows Server 2012 R2 Deploying servers Server remote management New Windows PowerShell capabilities Deploying domain controllers Active Directory administration Network administration Advanced networking capabilities *Leadership of Afterschool and Supplemental Education* Hazel M. Carter, 2022-07-22 This book explores the design and implementation of effective supplementary education programs that best prepare students for post secondary life Drawing from research and best practice in the fields of supplementary and afterschool education youth development and school college community partnerships this book outlines a balanced approach to viewing supplementary education and community based programs which when designed alongside classroom learning can meet the needs of underserved youth This book challenges aspiring educational leaders to confront the traditional approach to curriculum as the sole purview of the classroom and instead positions supplementary education as a tool to improve schools and student success Chapters discuss designing implementing and sustaining supplementary education programs that positively impact the social emotional and academic development of secondary school students as well as effective

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web the ballistic pendulum physics 110 laboratory in this experiment you will determine the muzzle velocity of a gun using two different methods the first method consists of firing a ball horizontally from the tabletop by measuring the range of the ball in the second part of the experiment the ball will be fired into the ballistic pendulum shown above and

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web experiment 8 ballistic pendulum objective to use a ballistic pendulum to determine the velocity of a projectile to verify this velocity by measuring the range of the projectile experiment we use measurements obtained from a ballistic pendulum to review energy conservation momentum conservation and projectile motion

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web sep 10 2020 the ballistic pendulum is a device used to determine the speed of objects moving too fast for conventional instruments the basic idea is that a projectile is fired into a pendulum which then swings upward to some height which is measured

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web abstract in this experiment we measured g by measuring the period of a pendulum of a known length we measured $g = 7.65 \pm 0.378 \text{ m/s}^2$ this correspond to a relative difference of 22.22 with the accepted value 9.8 m/s^2 and our result is not consistent with the accepted value

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web experiment 7 ballistic pendulum physic 181 april 15 2021 purpose the overall purpose of this experiment was to do observation and find the solution of whether the initial and final momentum of the object is zero when comparing this was done by launching a plumb bob to see its height from above the ground to the landing and also the bob

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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from a spring gun for many years police laboratories used ballistic pendulums to measure the muzzle velocities of firearms the ballistic pendulum consisted of a large block suspended by cords

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web 1 introduction in the ballistic pendulum experiment a small ball is shot from a launcher into a barrel at the end of rigid arm pendulum the ball lodges itself in the barrel and they swing together up to some maximum height energy is not conserved in the completely inelastic collision but linear momentum is

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web this paper presents the implementation of a physical pendulum for the physics laboratory using mainly a bar and a disc mounted on it which can be moved along this bar using implements such as a flexometer to measure the different lengths and a stopwatch to take the oscillation period of the pendulum

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web lab 12 ballistic pendulum experimental objectives to verify that the equations of conservation of momentum and conservation of mechanical energy give the same results as the equations of two dimensional motion by comparing the initial velocity the muzzle velocity of the ballistic projectile from two different sets of experimental measurements

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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web theory a ballistic pendulum is a device that can be used to measure the speed of projectiles using both conservation of momentum and conservation of energy it contains a swinging pendulum and a spring gun the gun shoots out the projectile ball bearing into the bob creating an inelastic collision

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