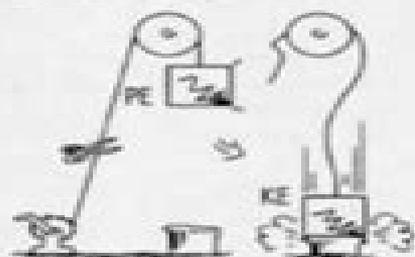
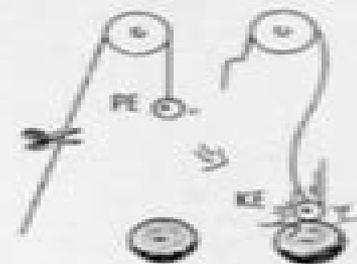


Chapter 21: Electrostatics
Electric Potential



Just as PE transforms to KE for a mass lifted against the gravitation field (left), the electric PE of an electric charge transforms to other forms of energy when it changes location in an electric field (right). In both cases, how does the KE acquired compare to the decrease in PE?



Complete the statements.



A force compresses the spring. The work done in compression is the product of the average force and the distance moved. $W = Fd$. This work increases the PE of the spring.

Similarly, a force pushes the charge (call it a test charge) closer to the charged sphere. The work done in moving the test charge is the product of the average _____ and the _____ moved. $W = \underline{\hspace{2cm}}$. This work _____ the PE of the test charge.



If the test charge is released, it will be repelled and fly past the starting point. Its gain in KE at this point is _____ to its decrease in PE.

At any point, a greater amount of test charge means a greater amount of PE. But not a greater amount of PE *per amount of charge*. The quantities PE (measured in joules) and PE/charge (measured in volts) are different concepts.

By definition: **Electric Potential = PE/charge**. 1 volt = 1 joule/1 coulomb. So 1 C of charge with a PE of 1 J has an electric potential of 1 V. And 2 C of charge with a PE of 2 J has an electric potential of _____ V.



If a conductor connected to the terminal of a battery has an electric potential of 12 V, then each coulomb of charge on the conductor has a PE of _____ J.



You do very little work in rubbing a balloon on your hair to charge it. The PE of several thousand billion electrons (about one-millionth coulomb [$10^{-6}C$]) transferred may be a thousandth of a joule [$10^{-3}J$]. Impressively, however, the electric potential of the balloon is about _____ V!

Why is contact with a balloon charged to thousands of volts not as dangerous as contact with household 110 V? _____

Concept Development Practice 2 Electrostatics Answers

Sabine Zange



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Table of Contents Concept Development Practice 2 Electrostatics Answers

1. Understanding the eBook Concept Development Practice 2 Electrostatics Answers
 - The Rise of Digital Reading Concept Development Practice 2 Electrostatics Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Concept Development Practice 2 Electrostatics Answers
 - 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 a Concept Development Practice 2 Electrostatics Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Concept Development Practice 2 Electrostatics Answers
 - Personalized Recommendations
 - Concept Development Practice 2 Electrostatics Answers User Reviews and Ratings
 - Concept Development Practice 2 Electrostatics Answers and Bestseller Lists

5. Accessing Concept Development Practice 2 Electrostatics Answers Free and Paid eBooks
 - Concept Development Practice 2 Electrostatics Answers Public Domain eBooks
 - Concept Development Practice 2 Electrostatics Answers eBook Subscription Services
 - Concept Development Practice 2 Electrostatics Answers Budget-Friendly Options
6. Navigating Concept Development Practice 2 Electrostatics Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Concept Development Practice 2 Electrostatics Answers Compatibility with Devices
 - Concept Development Practice 2 Electrostatics Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Concept Development Practice 2 Electrostatics Answers
 - Highlighting and Note-Taking Concept Development Practice 2 Electrostatics Answers
 - Interactive Elements Concept Development Practice 2 Electrostatics Answers
8. Staying Engaged with Concept Development Practice 2 Electrostatics Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Concept Development Practice 2 Electrostatics Answers
9. Balancing eBooks and Physical Books Concept Development Practice 2 Electrostatics Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Concept Development Practice 2 Electrostatics Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Concept Development Practice 2 Electrostatics Answers
 - Setting Reading Goals Concept Development Practice 2 Electrostatics Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Concept Development Practice 2 Electrostatics Answers
 - Fact-Checking eBook Content of Concept Development Practice 2 Electrostatics Answers
 - 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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