

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? _____

Conceptual Physics Answers Electrostatics

L M Garg



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Table of Contents Conceptual Physics Answers Electrostatics

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

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