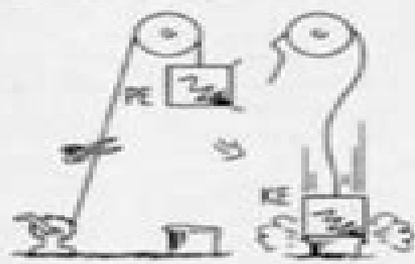
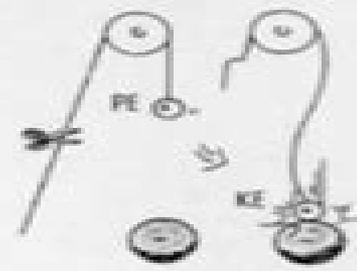


Chapter 21: Electrostatics  
Electric Potential



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 Concept Development Practice

## Chapter 21

**G Psacharopoulos**



**Conceptual Physics Concept Development Practice Chapter 21:**

The book delves into Conceptual Physics Concept Development Practice Chapter 21. Conceptual Physics Concept Development Practice Chapter 21 is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Conceptual Physics Concept Development Practice Chapter 21, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Conceptual Physics Concept Development Practice Chapter 21
  - Chapter 2: Essential Elements of Conceptual Physics Concept Development Practice Chapter 21
  - Chapter 3: Conceptual Physics Concept Development Practice Chapter 21 in Everyday Life
  - Chapter 4: Conceptual Physics Concept Development Practice Chapter 21 in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Conceptual Physics Concept Development Practice Chapter 21. This chapter will explore what Conceptual Physics Concept Development Practice Chapter 21 is, why Conceptual Physics Concept Development Practice Chapter 21 is vital, and how to effectively learn about Conceptual Physics Concept Development Practice Chapter 21.
3. In chapter 2, the author will delve into the foundational concepts of Conceptual Physics Concept Development Practice Chapter 21. This chapter will elucidate the essential principles that need to be understood to grasp Conceptual Physics Concept Development Practice Chapter 21 in its entirety.
4. In chapter 3, the author will examine the practical applications of Conceptual Physics Concept Development Practice Chapter 21 in daily life. This chapter will showcase real-world examples of how Conceptual Physics Concept Development Practice Chapter 21 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Conceptual Physics Concept Development Practice Chapter 21 in specific contexts. This chapter will explore how Conceptual Physics Concept Development Practice Chapter 21 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Conceptual Physics Concept Development Practice Chapter 21. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Conceptual Physics Concept Development Practice Chapter 21.

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