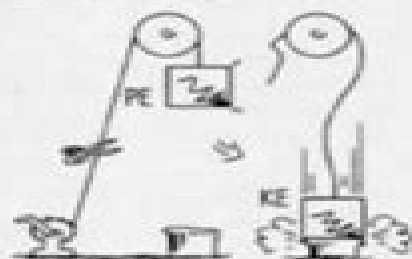
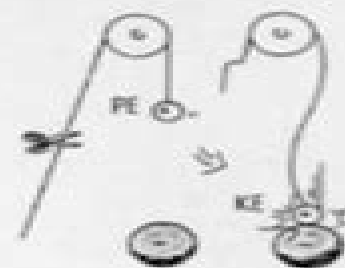


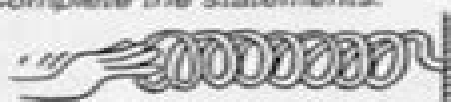
Chapter 21: Electrostatics
Electric Potential



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?

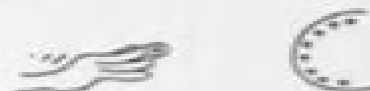


Complete the statements.



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? _____

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CH Cherryholmes



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Public health reports, 1976

The Learning and Teaching of Statistics and Probability Luis Saldanha, Neil J. Hatfield, Egan J Chernoff, Caterina Primi, 2023-12-01 Filled with practical learning activities to adopt within your classroom The Learning and Teaching of Statistics and Probability places reasoning about quantities and quantification at the core of learning and teaching statistics A companion website to this book is also available at https://neilhatfield.github.io/IMPACT_Statistics allowing readers to access a directory of resources data collections and web based applets used in some of the instructional activities featured within this book Through its presentation of conceptual analyses and resources for teaching with statistical data the book's five chapters establish key concepts and foundational ideas in statistics and probability emphasizing the development of learner understanding and coherence for example Individual cases and their attributes Data collections sub collections and relevant operations to quantify their attributes Samples population and quantifying variation Types of processes meanings of randomness and probability as a measure of stochastic tendency Sampling distributions and statistical inference This highly informative yet practical book is an indispensable resource for teachers of secondary school mathematics mathematics subject leads and mathematics and statistics educators within the wider field of education

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