

# Charges, Fields, and Potential

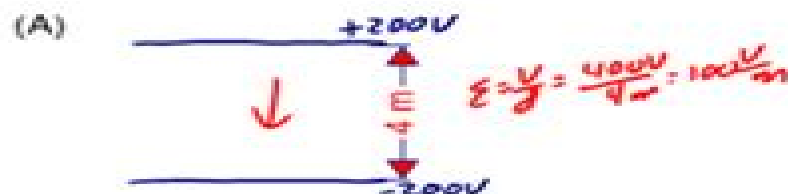
1. A conducting coathanger has a net excess charge of  $6.4 \times 10^{-19}$  coulombs. The coathanger must:

- (A) have 2 excess electrons
- (B) be missing 2 protons
- (C) have 4 excess electrons
- ☒ (D) be missing 4 electrons

2. A metal conducting sphere has a net excess charge of  $-4.8 \times 10^{-19}$  coulombs. The metal sphere must:

- (A) have 2 excess electrons
- (B) be missing 2 protons
- ☒ (C) have 3 excess electrons
- (D) be missing 3 electrons

3. Calculate the electric field for each of the following. Indicate both magnitude and direction.



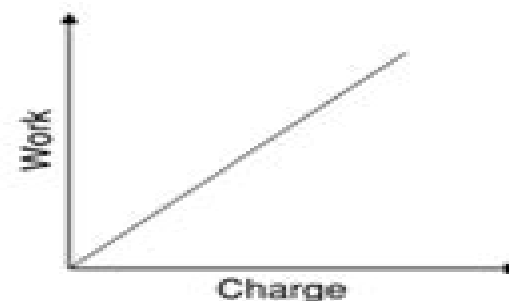
4. Which diagram best represents the electric field around a negatively charged conducting sphere?



5. The graph at right shows the relationship between the work done on a charged body in an electric field and the net charge on the body. What does the slope of this graph represent?

- (A) Power
- ☒ (B) Potential difference
- (C) Force
- (D) Electric field intensity

$$\frac{\text{rise}}{\text{run}} = \frac{W}{q} = \frac{8V}{8} = V$$



6. A metal sphere having an excess of +5 elementary charges has a net electric charge of  $8 \times 10^{-19}$  C.

# Physics Electrostatic Solution

**Jin-Ying Zhang**



## **Physics Electrostatic Solution:**

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Electrification of Particulates in Industrial and Natural Multiphase flows Zhaolin Gu,Wei Wei,2017-07-26 This book introduces comprehensive fundamentals numerical simulations and experimental methods of electrification of particulates entrained multiphase flows The electrifications of two particulate forms liquid droplets and solid particles are firstly described together Liquid droplets can be charged under preset or associated electric fields while solid particles can be charged through contact Different charging ways in gas liquid liquid or gas solid multiphase flows are summarized including ones that are beneficial to industrial processes such as electrostatic precipitation electrostatic spraying and electrostatic separation etc ones harmful for shipping and powder industry and ones occurring in natural phenomenon such as wind blown sand and thunderstorm This book offers theoretical references to the control and utilization of the charging or charged particulates in multiphase flows as well

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