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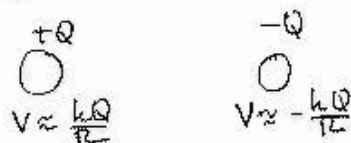
Collab # 4 Solutions

Part 1 This can be approximated as a parallel plate capacitor

$$C = \epsilon_0 A/d = 8.85 \times 10^{-12} \frac{\pi (1)^2}{10^{-3}} = 2.78 \times 10^{-8} \text{ F}$$

Part 2 $U = \frac{1}{2} C Q^2 = \frac{1}{2} \frac{1}{2.78 \times 10^{-8}} (10^{-9})^2 = 1.8 \times 10^{-11} \text{ J}$

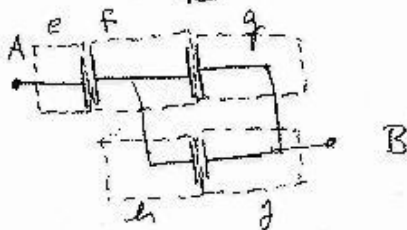
Part 3 To rough order of magnitude the answer should be the same as for spheres of radius $R=1\text{m}$. Consider charge $\pm Q$ on such spheres



$$\Delta V = \frac{2kQ}{R} \Rightarrow C = \frac{Q}{\Delta V} = \frac{R}{2k} = \frac{1}{18 \times 10^9}$$

$$\therefore C = 5.56 \times 10^{-11} \text{ F}$$

Part 4

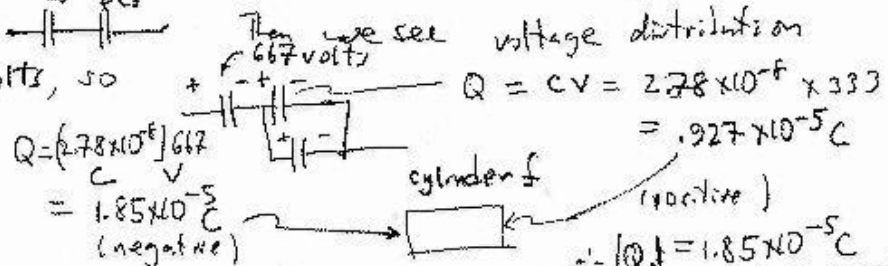


part 5 Equivalent ckt, with $C_0 = 2.78 \times 10^{-8} \text{ F}$

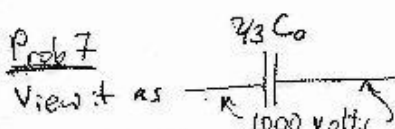
$$C_0 \parallel C_0 \parallel C_0 = \frac{2C_0}{3} = \frac{2}{3} C_0$$

$$C = \frac{2}{3} C_0 = \frac{2}{3} (2.78 \times 10^{-8} \text{ F}) = 1.85 \times 10^{-8} \text{ F}$$

part 6 View ckt as $C_0 \parallel 2C_0$ is 667 volts and 333 volts, so

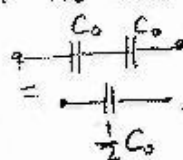


Part 7



$$U = \frac{1}{2} CV^2 = \frac{1}{2} C_0 V^2 = \frac{1}{2} (2.78 \times 10^{-8}) (10^3)^2 = 9.27 \times 10^{-3} \text{ J}$$

Part 8 without h we have



$C = \frac{1}{2} C_0$ The charge on the system is the same as in part 7

$$Q = \frac{2}{3} C_0 (1000 \text{ V}) = 1.85 \times 10^{-5} \text{ C}$$

$$\therefore U = \frac{1}{2} C Q^2 = \frac{1}{2} \frac{1}{C_0} Q^2 = 1.24 \times 10^{-2} \text{ J}$$

Thus work required = $\underbrace{1.24 \times 10^{-2} \text{ J}}_{U \text{ without } h} - \underbrace{9.27 \times 10^{-3} \text{ J}}_{U \text{ with } h} = 3.09 \times 10^{-3} \text{ J}$

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