Chapter 26 - Capacitance

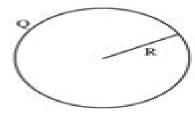
Problem Set #5 - due: Ch 26 - 2, 3, 5, 7, 9, 15, 22, 26, 29, 61, 63, 64

The ideas of energy storage in E-fields can be carried a step further by understanding the concept of "Capacitance."

Lecture Outline

- 1. The Definition of Capacitance
- 2. Capacitors in Circuits
- 3. Energy Storage in Capacitors and Electric Fields
- Dielectrics in Capacitors

1. The Definition of Capacitance



Consider a sphere with a total charge, Q, and a radius, R. From previous problems we know that the potential at the surface is, $V = k \frac{Q}{R}$. Putting more charge on the sphere stores more energy, but the ratio of energy or potential to charge depends only on R, not on Q or V. That is, $\frac{Q}{V} = \frac{R}{k}$. It's true for all charged objects that the ratio of potential to voltage depends only on the shape, so this ratio is defined as the capacitance.

$$C \equiv \frac{Q}{V}$$
 The Defintion of Capacitance

The units of capacitance are $\frac{1 \text{ Coulomb}}{1 \text{ Volt}} \equiv 1 \text{ Farad} \equiv 1 \text{ F}.$

Example 1: Calculate the capacitance of two equal but oppositely charged plates of area, A, and separation, d. Neglect any edge effects.

The potential difference between the plates is, $\Delta V = -\int \vec{E} \cdot d\vec{s}$.

The field between the plates is just the sum of the fields due to the individual plates (see Ch 23 - example 9),

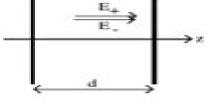
$$\vec{E} = \vec{E}_+ + \vec{E}_- = \frac{\sigma}{2\epsilon_o} \hat{k} + \frac{\sigma}{2\epsilon_o} \hat{k} = \frac{\hat{\sigma}}{\epsilon_o} \hat{k} = \frac{q}{\epsilon_o A} \hat{k}.$$

Using $d\vec{s} = dz \hat{k}$, the voltage on the capacitor can be written as,

$$\Delta V = -\int \frac{q}{\epsilon_o A} \, \hat{k} \, \bullet dz \, \hat{k} = -\int \frac{q}{\epsilon_o A} \, dz = -\frac{q}{\epsilon_o A} \, \Delta z \Longrightarrow V = \frac{q d}{\epsilon_o A} \, .$$

Applying the definition of capacitance,

$$C \equiv \frac{Q}{V} = \frac{q}{\frac{qd}{\epsilon_o A}} \Rightarrow C = \epsilon_o \frac{A}{d}$$
. Note that the capacitance only depends on the shape.



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