Chapter 21 continued

charges on the plates were reversed, the droplet would accelerate downward since all forces then act in the same direction as gravity.

 A 0.5-μF capacitor is able to store 7.2×10⁻³⁰ C of charge with an electric field strength of 0.33 N/C between its plates. How far apart are these plates?

$$C = \frac{q}{\Delta V} = \frac{q}{Ed}$$

$$d = \frac{q}{EC} = \frac{7.2 \times 10^{-10} \text{ C}}{(0.33 \text{ N/C})(0.5 \times 10^{-6} \text{ F})}$$

$$= 4.4 \times 10^{-3} \text{ m} = 4.4 \text{ mm}$$

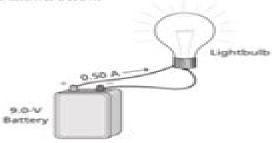
16. Most capacitors are measured in terms of microfarads, μE, or picofarads, pE, because the unit of capacitance, the farad, is a relatively large unit. Given a 1-F capacitor with plates separated by 1.0 mm and an electric field strength of 1 N/C, calculate the number of electrons resting on the plates of this capacitor.

$$C = \frac{q}{\Delta V} = \frac{q}{Ed}$$

 $q = CEd = (1 \text{ F})(1 \text{ N/C})(0.0010 \text{ m})$
 $= 0.0010 \text{ C}$
 $n = \frac{q}{q_e} = \frac{0.0010 \text{ C}}{1.60 \times 10^{-15} \text{ C}}$
 $= 6.2 \times 10^{15} \text{ electrons}$

Chapter 22

 A 9.0-V battery is connected to a lightbulb, as shown below.



a. How much power is delivered to the lightbulb?

b. How much energy will the bulb use in 1 h?

$$E = Pt$$
 $P = IV$
 $E = IVt$
 $= (0.50 \text{ A})(9.0 \text{ V})(1 \text{ h})(\frac{60 \text{ min}}{1 \text{ h}})(\frac{60 \text{ s}}{1 \text{ min}})$
 $= 16.000 \text{ J}$

e. How long would the bulb have to stay on to use 1 kWh of energy?

$$E = Pt$$

$$t = \frac{E}{P}$$

$$P = tV$$

$$t = \frac{E}{tV}$$

$$E = (1 \text{ kWh}) \left(\frac{1000 \text{ W}}{1 \text{ kW}}\right) \left(\frac{3600 \text{ s}}{1 \text{ h}}\right)$$

$$= 3.6 \times 10^6 \text{ J}$$

$$t = \frac{3.6 \times 10^6 \text{ J}}{(0.50 \text{ A} \times 9.0 \text{ V})}$$

$$= 800,000 \text{ s}$$

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Lillian C. McDermott, Physics Education Group

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