

Answer Key

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.

15. A $0.5\text{-}\mu\text{F}$ capacitor is able to store $7.2 \times 10^{-10}\text{ C}$ 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, μF , or picofarads, pF , 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.

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

$$q = CEd = (1\text{ F})(1\text{ N/C})(0.0010\text{ m}) \\ = 0.0010\text{ C}$$

$$n = \frac{q}{q_e} = \frac{0.0010\text{ C}}{1.60 \times 10^{-19}\text{ C}}$$

$$= 6.2 \times 10^{15}\text{ electrons}$$

Chapter 22

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



a. How much power is delivered to the lightbulb?

$$P = IV \\ = (0.50\text{ A})(9.0\text{ V}) \\ = 4.5\text{ W}$$

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

$$E = Pt \\ P = IV \\ E = IVt \\ = (0.50\text{ A})(9.0\text{ V})(1\text{ h})\left(\frac{60\text{ min}}{1\text{ h}}\right)\left(\frac{60\text{ s}}{1\text{ min}}\right) \\ = 16,000\text{ J}$$

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

$$E = Pt \\ t = \frac{E}{P} \\ P = IV \\ t = \frac{E}{IV} \\ E = (1\text{ kWh})\left(\frac{1000\text{ W}}{1\text{ kW}}\right)\left(\frac{3600\text{ s}}{1\text{ h}}\right) \\ = 3.6 \times 10^6\text{ J} \\ t = \frac{3.6 \times 10^6\text{ J}}{(0.50\text{ A})(9.0\text{ V})} \\ = 800,000\text{ s}$$

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