

CHAPTER 18

- The charge that passes through the battery is
 $\Delta Q = I \Delta t = (5.7 \text{ A})(7.0 \text{ h})(3600 \text{ s/h}) = 1.4 \times 10^5 \text{ C}.$
- The rate at which electrons pass any point in the wire is the current:
 $I = 1.00 \text{ A} = (1.00 \text{ C/s}) / (1.60 \times 10^{-19} \text{ C/electron}) = 6.25 \times 10^{18} \text{ electron/s}.$
- We find the current from
 $I = \Delta Q / \Delta t = (1000 \text{ ions})(1.60 \times 10^{-19} \text{ C/ion}) / (6.5 \times 10^{-6} \text{ s}) = 2.5 \times 10^{-11} \text{ A}.$
- We find the voltage from
 $V = IR = (0.25 \text{ A})(3000 \Omega) = 7.5 \times 10^2 \text{ V}.$
- We find the resistance from
 $V = IR;$
 $110 \text{ V} = (3.1 \text{ A})R,$ which gives $R = 35 \Omega.$
- For the device we have $V = IR.$
 (a) If we assume constant resistance and divide expressions for the two conditions, we get
 $V_2 / V_1 = I_2 / I_1;$
 $0.90 = I_2 / (5.50 \text{ A}),$ which gives $I_2 = 4.95 \text{ A}.$
 (b) With the voltage constant, if we divide expressions for the two conditions, we get
 $I_2 / I_1 = R_1 / R_2;$
 $I_2 / (5.50 \text{ A}) = 1 / 0.90,$ which gives $I_2 = 6.11 \text{ A}.$
- The rate at which electrons leave the battery is the current:
 $I = V / R = [(9.0 \text{ V}) / (1.6 \Omega)](60 \text{ s/min}) / (1.60 \times 10^{-19} \text{ C/electron}) = 2.1 \times 10^{21} \text{ electron/min}.$
- (a) We find the resistance from
 $V = IR;$
 $120 \text{ V} = (9.0 \text{ A})R,$ which gives $R = 13 \Omega.$
 (b) The charge that passes through the hair dryer is
 $\Delta Q = I \Delta t = (9.0 \text{ A})(15 \text{ min})(60 \text{ s/min}) = 8.1 \times 10^3 \text{ C}.$
- We find the resistance from
 $V = IR;$
 $12 \text{ V} = (0.50 \text{ A})R,$ which gives $R = 24 \Omega.$
 The energy taken out of the battery is
 $E = Pt = IVt = (0.50 \text{ A})(12 \text{ V})(1 \text{ min})(60 \text{ s/min}) = 3.6 \times 10^2 \text{ J}.$
- We find the voltage across the bird's feet from
 $V = IR = (2500 \text{ A})(2.5 \times 10^{-5} \Omega/\text{m})(4.0 \times 10^{-2} \text{ m}) = 2.5 \times 10^{-3} \text{ V}.$

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