48. (a) We find the resistance from
$R = V/I = (22.0\ \text{mV})/(750\ \text{mA}) =$ 0.0293 Ω.
(b) We find the resistivity from
$R = \rho L/A$;
$0.0293\ \Omega = \rho(5.00\ \text{m})/\pi(1.0\times10^{6}\ \text{m})^2$, which gives $\rho =$ 1.8×10^{-8} Ω·m.
(c) We find the density of free electrons from the drift speed:
$I = nvAr_d = nv(\pi r^2)r_d$;
$750\ \text{mA} = n(1.60 \times 10^{-19}\ \text{C})\pi(1.0 \times 10^{-3}\ \text{m})^2(1.7 \times 10^{-3}\ \text{m/s})$, which gives $n =$ $8.8 \times 10^{28}\ \text{m}^{-3}$.

49. For the total current we have
$I = n_+(+e)Ar_{d+} + n_-(-2e)Ar_{d-} = 0$;
$(5.00\ \text{mol/m}^3)(5.00 \times 10^{-4}\ \text{m/s}) - 2n_-(-2.00 \times 10^{-4}\ \text{m/s}) = 0$, which gives $n_- =$ 6.25 mol/m³.

50. For the net current density we have
$I/A = n_+(+2e)r_{d+} + n_-(-e)r_{d-}$
$= (2.8 \times 10^{17}\ \text{m}^{-3})(2)(1.60 \times 10^{-19}\ \text{C})(2.0 \times 10^{6}\ \text{m/s}) +$
$(8.0 \times 10^{17}\ \text{m}^{-3})(-1.60 \times 10^{-19}\ \text{C})(-7.2 \times 10^{6}\ \text{m/s}) =$ 2.7 A/m² north.

51. We find the magnitude of the electric field from
$E = V/d = (70 \times 10^{-3}\ \text{V})/(1.0 \times 10^{-4}\ \text{m}) =$ 7.0×10^{6} V/m.
Note that the direction of the field will be into the cell.

52. We find the speed of the pulse from
$v = \Delta x/\Delta t = (7.20\ \text{cm} - 3.40\ \text{cm})/(100\ \text{cm/m})(0.0063\ \text{s} - 0.0052\ \text{s}) =$ 35 m/s.
Two measurements are necessary to eliminate uncertainty over the exact location of the stimulation and the effects of the initial creation of the stimulation, including any initial delay in producing the change in concentrations.

53. From the data of Example 18–15, we can find the required energy from the energy stored in the capacitor during a pulse:
$U = \frac{1}{2}CV^2 = \frac{1}{2}(10^{-8}\ \text{F})(0.10\ \text{V})^2 =$ 5×10^{-11} J.
If the time between pulses is
$t = 1/(100\ \text{pulses/s}) = 0.010$ s,
for N neurons the average power is
$P_{av} = NU/t = (10^{9})(5 \times 10^{-11}\ \text{J})/(0.010\ \text{s}) =$ 5×10^{-3} W.

54. Because each ion carries the electron charge, the effective current of the Na^+ ions through the surface of the axon is
$I = jN_A\rho(\pi dL)$
$= (5 \times 10^{-7}\ \text{mol/m}^2\ \text{s})(6.02 \times 10^{23}\ \text{ion/mol})(1.60 \times 10^{-19}\ \text{C/ion})\pi(20 \times 10^{-6}\ \text{m})(0.10\ \text{m})$
$= 1.8 \times 10^{-7}$ A.
The power required to move these charges through the potential difference is
$P = IV = (1.8 \times 10^{-7}\ \text{A})(30 \times 10^{-3}\ \text{V}) =$ 5.4×10^{-9} W.

55. The charge is

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