48. (a) We find the resistance from
$$R = V/I = (22.0\text{ mV})/(750\text{ mA}) = \quad 0.0293\ \Omega.$$
(b) We find the resistivity from
$$R = \rho L/A;$$
$$0.0293\ \Omega = \rho(5.00\text{ m})/(1.0{\times}10^{-6}\text{ m}^2),\ \text{which gives }\rho = \quad 1.8{\times}10^{-8}\ \Omega\cdot\text{m}.$$
(c) We find the density of free electrons from the drift speed:
$$I = neAv_d = ne(r^2)v_d;$$
$$750\text{ mA} = n(1.60{\times}10^{-19}\text{ C})(1.0{\times}10^{-3}\text{ m})^2(1.7{\times}10^{-4}\text{ m/s}),\ \text{which gives }n = \quad 8.8{\times}10^{28}\ \text{m}^{-3}.$$

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

50. For the net current density we have
$$J/A = n_+(+2e)v_+ + n_-(-e)v_-$$
$$= (2.8{\times}10^{12}\text{ m}^{-3})(2)(1.60{\times}10^{-19}\text{ C})(2.0{\times}10^6\text{ m/s}) +$$
$$(8.0{\times}10^{11}\text{ m}^{-3})(-1.60{\times}10^{-19}\text{ C})(-7.2{\times}10^6\text{ m/s}) = \quad 2.7\text{ A/m}^2\ \text{north}.$$

51. We find the magnitude of the electric field from
$$E = V/d = (70{\times}10^{-3}\text{ V})/(1.0{\times}10^{-8}\text{ m}) = \quad 7.0{\times}10^6\text{ V/m}.$$
Note that the direction of the field will be into the cell.

52. We find the speed of the pulse from
$$v = \Delta x/\Delta t = (7.20\text{ cm} - 3.40\text{ cm})/(100\text{ cm/s})(0.0063\text{ s} - 0.0052\text{ s}) = \quad 35\text{ m/s}.$$
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:
$$U = \tfrac{1}{2}CV^2 = \tfrac{1}{2}(10^{-9}\text{ F})(0.10\text{ V})^2 = \quad 5{\times}10^{-12}\text{ J}.$$
If the time between pulses is
$$t = 1/(100\text{ pulses/s}) = 0.010\text{ s},$$
for N neurons the average power is
$$P_{av} = NU/t = (10^9)(5{\times}10^{-12}\text{ J})/(0.010\text{ s}) = \quad 5{\times}10^{-1}\text{ W}.$$

54. Because each ion carries the electron charge, the effective current of the Na^+ ions through the surface of the axon is
$$I = (N/t)e/(d/L)$$
$$= (3{\times}10^{-7}\text{ mol/m}^2\cdot\text{s})(6.02{\times}10^{23}\text{ ion/mol})(1.60{\times}10^{-19}\text{ C/ion})(20{\times}10^{-6}\text{ m})(0.10\text{ m})$$
$$= 5.8{\times}10^{-7}\text{ A}.$$
The power required to move these charges through the potential difference is
$$P = IV = (5.8{\times}10^{-7}\text{ A})(30{\times}10^{-3}\text{ V}) = \quad 3.4{\times}10^{-8}\text{ W}.$$

55. The charge is

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