Chapter 1

The Schrödinger Equation

- 1.1 (a) F; (b) T; (c) T.
- 1.2 (a) $E_{\text{photon}} = h\nu = hc/\lambda = (6.626 \times 10^{-34} \text{ J s})(2.998 \times 10^8 \text{ m/s})/(1064 \times 10^{-9} \text{ m}) = 1.867 \times 10^{-19} \text{ J}.$ (b) $E = (5 \times 10^6 \text{ J/s})(2 \times 10^{-8} \text{ s}) = 0.1 \text{ J} = n(1.867 \times 10^{-19} \text{ J}) \text{ and } n = 5 \times 10^{17}.$
 - **(b)** $E = (5 \times 10^{\circ} \text{ J/s})(2 \times 10^{\circ\circ} \text{ s}) = 0.1 \text{ J} = n(1.867 \times 10^{\circ\circ} \text{ J}) \text{ and } n = 5 \times 10^{\circ\circ}.$
- 1.3 Use of $E_{\text{photon}} = hc/\lambda$ gives $E = \frac{(6.022 \times 10^{23})(6.626 \times 10^{-34} \text{ J s})(2.998 \times 10^8 \text{ m/s})}{300 \times 10^{-9} \text{ m}} = 399 \text{ kJ}$
- 1.4 (a) $T_{\text{max}} = h\nu \Phi =$ $(6.626 \times 10^{-34} \text{ J s})(2.998 \times 10^8 \text{ m/s})/(200 \times 10^{-9} \text{ m}) - (2.75 \text{ eV})(1.602 \times 10^{-19} \text{ J/eV}) =$ $5.53 \times 10^{-19} \text{ J} = 3.45 \text{ eV}.$
 - (b) The minimum photon energy needed to produce the photoelectric effect is $(2.75 \text{ eV})(1.602 \times 10^{-19} \text{ J/eV}) = hv = hc/\lambda = (6.626 \times 10^{-34} \text{ J s})(2.998 \times 10^8 \text{ m/s})/\lambda$ and $\lambda = 4.51 \times 10^{-7} \text{ m} = 451 \text{ nm}$.
 - (c) Since the impure metal has a smaller work function, there will be more energy left over after the electron escapes and the maximum T is larger for impure Na.
- 1.5 (a) At high frequencies, we have e^{h/T} >> 1 and the −1 in the denominator of Planck's formula can be neglected to give Wien's formula.
 - (b) The Taylor series for the exponential function is $e^x = 1 + x + x^2/2! + \cdots$. For x << 1, we can neglect x^2 and higher powers to give $e^x 1 \approx x$. Taking x = hv/kT, we have for Planck's formula at low frequencies

$$\frac{a v^3}{e^{b v/T}-1} = \frac{2 \pi h v^3}{c^2 (e^{b v/kT}-1)} \approx \frac{2 \pi h v^3}{c^2 (h v/kT)} = \frac{2 \pi v^2 kT}{c^2}$$

1.6 $\lambda = h/mv = 137h/mc = 137(6.626 \times 10^{-34} \text{ J s})/(9.109 \times 10^{-31} \text{ kg})(2.998 \times 10^8 \text{ m/s}) = 3.32 \times 10^{-10} \text{ m} = 0.332 \text{ nm}.$

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