

37. We use $eV = hc/\lambda_{\min}$ (see Eq. 41-23 and Eq. 39-4):

$$h = \frac{eV\lambda_{\min}}{c} = \frac{(1.60 \times 10^{-19} \text{ C})(40.0 \times 10^3 \text{ eV})(31.1 \times 10^{-12} \text{ m})}{2.998 \times 10^8 \text{ m/s}} = 6.63 \times 10^{-34} \text{ J}\cdot\text{s} .$$