

10. Following Sample Problem 39-1, we have

$$P = \frac{Rhc}{\lambda} = \frac{(100/\text{s}) (6.63 \times 10^{-34} \text{ J}\cdot\text{s}) (2.998 \times 10^8 \text{ m/s})}{550 \times 10^{-9} \text{ m}} = 3.6 \times 10^{-17} \text{ W} .$$