

24. We use Eq. 39-6 and the result of problem 3:

$$K_{\max} = E_{\text{photon}} - \Phi = \frac{hc}{\lambda} - \frac{hc}{\lambda_{\max}} = \frac{1240 \text{ eV} \cdot \text{nm}}{254 \text{ nm}} - \frac{1240 \text{ eV} \cdot \text{nm}}{325 \text{ nm}} = 1.07 \text{ eV} .$$