

Problem

A piece of potassium is illuminated by violet light having frequency $7.5 \times 10^{14} \text{ Hz}$. Electrons are ejected from the surface with a maximum KE of $2.4 \times 10^{-19} \text{ J}$. Find:

- (a) The energy of the photons
- (b) The work function for potassium.
- (c) The threshold frequency for potassium.