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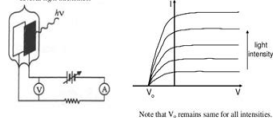


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Chapter 2 Solutions

Prob. 2.1
(a,b) Sketch a vacuum tube device. Graph photocurrent I versus retarding voltage V for several light intensities.



Note that V_s remains same for all intensities.

(c) Find retarding potential.

$$\lambda = 2440 \text{ \AA} = 0.244 \mu\text{m} = 4.09 \times 10^{-7} \text{ m}$$
$$V = h\nu - \phi = \frac{1.24 \text{ eV} \mu\text{m}}{\lambda(\mu\text{m})} - 1.24 \text{ eV} \mu\text{m} = \frac{1.24 \text{ eV} \mu\text{m}}{0.244 \mu\text{m}} - 1.24 \text{ eV} = 5.08 \text{ eV} - 1.24 \text{ eV} = 3.84 \text{ eV}$$

Prob. 2.2
Show that Bohr postulate equates to integer number of DeBroglie waves fitting within circumference of a Bohr circular orbit.

$$r = \frac{4\pi^2 m_e v r}{m_e v} \quad \text{and} \quad \frac{h^2}{4\pi^2 m_e^2 v^2 r} = \frac{m_e v^2}{r} \quad \text{and} \quad p = m_e v$$

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$$m_e v^2 r = n^2 \frac{h^2}{4\pi^2 m_e}$$
$$m_e v^2 r = n^2 \frac{h^2}{4\pi^2 m_e}$$
$$p = n \frac{h}{2\pi r} \text{ is the } n^{\text{th}} \text{ Bohr postulate}$$

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