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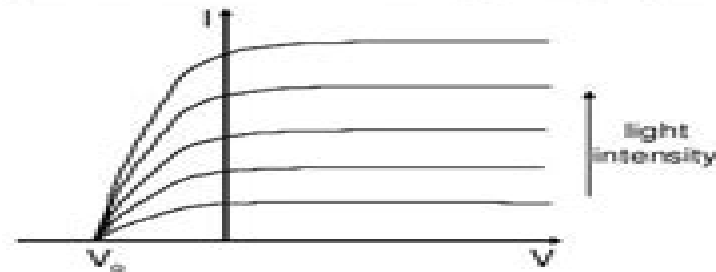
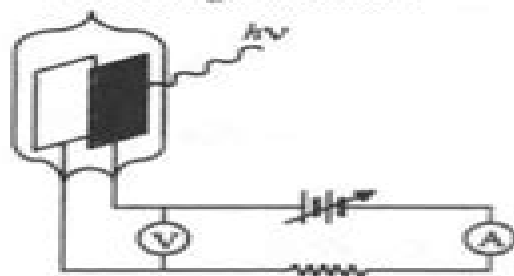
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Chapter 2 Solutions

Prob. 2.1

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



Note that V_0 remains same for all intensities.

(c) Find retarding potential.

$$\lambda = 2440 \text{ Å} = 0.244 \mu\text{m} \quad \Phi = 4.09 \text{ eV}$$

$$V_0 = h\nu - \Phi = \frac{1.24 \text{ eV} \cdot \mu\text{m}}{\lambda(\mu\text{m})} - \Phi = \frac{1.24 \text{ eV} \cdot \mu\text{m}}{0.244 \mu\text{m}} - 4.09 \text{ eV} = 5.08 \text{ eV} - 4.09 \text{ eV} \approx 1 \text{ eV}$$

Prob. 2.2

Show third Bohr postulate equivalent to integer number of DeBroglie waves fitting within circumference of a Bohr circular orbit.

$$r_n = \frac{4\pi\epsilon_0 n^2 \hbar^2}{mq^2} \quad \text{and} \quad \frac{q^2}{4\pi\epsilon_0 r^2} = \frac{mv^2}{r} \quad \text{and} \quad p_n = mvr$$

$$r_n = \frac{4\pi\epsilon_0 n^2 \hbar^2}{mq^2} = \frac{n^2 \hbar^2}{mr_n^2} \cdot \frac{4\pi\epsilon_0 r_n^2}{q^2} = \frac{n^2 \hbar^2}{mr_n^2} \cdot \frac{r_n}{mv^2} = \frac{n^2 \hbar^2}{m^2 v^2 r_n}$$

$$m^2 v^2 r_n^2 = n^2 \hbar^2$$

$$mvr_n = n\hbar$$

$p_n = n\hbar$ is the third Bohr postulate

Solid State Electronic Devices Streetman Solutions Manual

R Sanford



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Table of Contents Solid State Electronic Devices Streetman Solutions Manual

1. Understanding the eBook Solid State Electronic Devices Streetman Solutions Manual
 - The Rise of Digital Reading Solid State Electronic Devices Streetman Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Solid State Electronic Devices Streetman Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solid State Electronic Devices Streetman Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solid State Electronic Devices Streetman Solutions Manual
 - Personalized Recommendations
 - Solid State Electronic Devices Streetman Solutions Manual User Reviews and Ratings
 - Solid State Electronic Devices Streetman Solutions Manual and Bestseller Lists

5. Accessing Solid State Electronic Devices Streetman Solutions Manual Free and Paid eBooks
 - Solid State Electronic Devices Streetman Solutions Manual Public Domain eBooks
 - Solid State Electronic Devices Streetman Solutions Manual eBook Subscription Services
 - Solid State Electronic Devices Streetman Solutions Manual Budget-Friendly Options
6. Navigating Solid State Electronic Devices Streetman Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Solid State Electronic Devices Streetman Solutions Manual Compatibility with Devices
 - Solid State Electronic Devices Streetman Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solid State Electronic Devices Streetman Solutions Manual
 - Highlighting and Note-Taking Solid State Electronic Devices Streetman Solutions Manual
 - Interactive Elements Solid State Electronic Devices Streetman Solutions Manual
8. Staying Engaged with Solid State Electronic Devices Streetman Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solid State Electronic Devices Streetman Solutions Manual
9. Balancing eBooks and Physical Books Solid State Electronic Devices Streetman Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solid State Electronic Devices Streetman Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solid State Electronic Devices Streetman Solutions Manual
 - Setting Reading Goals Solid State Electronic Devices Streetman Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solid State Electronic Devices Streetman Solutions Manual
 - Fact-Checking eBook Content of Solid State Electronic Devices Streetman Solutions Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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