

## Chapter 1

### Exercise Solutions

#### EX1.1

$$n_i = BT^{3/2} \exp\left(\frac{-E_g}{2kT}\right)$$

Given:  $n_i = (2.1 \times 10^{12})(300)^{3/2} \exp\left(\frac{-1.4}{2(9.6 \times 10^{-3})(300)}\right)$  or  $n_i = 1.3 \times 10^{15} \text{ cm}^{-3}$

Given:  $n_i = (0.66 \times 10^{12})(300)^{3/2} \exp\left(\frac{-0.66}{2(9.6 \times 10^{-3})(300)}\right)$  or  $n_i = 2.40 \times 10^{15} \text{ cm}^{-3}$

#### EX1.2

(a) (i)  $n_s = N_d = 2 \times 10^{14} \text{ cm}^{-3}$

$$p_s = \frac{n_s^2}{n_i} = \frac{(0.5 \times 10^{14})^2}{2 \times 10^{14}} = 1.125 \times 10^{13} \text{ cm}^{-3}$$

(ii)  $p_s = N_n = 10^{17} \text{ cm}^{-3}$

$$n_s = \frac{n_i^2}{p_s} = \frac{(0.5 \times 10^{14})^2}{10^{17}} = 2.25 \times 10^7 \text{ cm}^{-3}$$

(iii) (i)  $n_s = N_d = 2 \times 10^{14} \text{ cm}^{-3}$

$$p_s = \frac{n_s^2}{n_i} = \frac{(0.8 \times 10^{14})^2}{2 \times 10^{14}} = 1.62 \times 10^{14} \text{ cm}^{-3}$$

(ii)  $p_s = N_n = 10^{17} \text{ cm}^{-3}$

$$n_s = \frac{n_i^2}{p_s} = \frac{(0.8 \times 10^{14})^2}{10^{17}} = 3.24 \times 10^{-1} \text{ cm}^{-3}$$

#### EX1.3

(a) For n-type:

$$\rho^2 = \frac{1}{e\mu_n N_d} = \frac{1}{(0.6 \times 10^{-3})(6800)(2 \times 10^{14})} = 0.046 \text{ ohm-cm}$$

$$(b) J = \frac{1}{\rho} \cdot E \Rightarrow E = \rho J = (0.046)(175) = 8.04 \text{ V/cm}$$

#### EX1.4

Diffusion current density due to holes:

$$J_p = -eD_p \frac{dp}{dx}$$

$$= -eD_p (10^{12}) \left(\frac{-1}{E_p}\right) \exp\left(\frac{-x}{E_p}\right)$$

# Microelectronics Solution Manual 4th Neamen

**Donald A. Neamen**

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## **Table of Contents Microelectronics Solution Manual 4th Neamen**

1. Understanding the eBook Microelectronics Solution Manual 4th Neamen
  - The Rise of Digital Reading Microelectronics Solution Manual 4th Neamen
  - Advantages of eBooks Over Traditional Books
2. Identifying Microelectronics Solution Manual 4th Neamen
  - 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 Microelectronics Solution Manual 4th Neamen
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microelectronics Solution Manual 4th Neamen
  - Personalized Recommendations
  - Microelectronics Solution Manual 4th Neamen User Reviews and Ratings
  - Microelectronics Solution Manual 4th Neamen and Bestseller Lists
5. Accessing Microelectronics Solution Manual 4th Neamen Free and Paid eBooks
  - Microelectronics Solution Manual 4th Neamen Public Domain eBooks
  - Microelectronics Solution Manual 4th Neamen eBook Subscription Services
  - Microelectronics Solution Manual 4th Neamen Budget-Friendly Options
6. Navigating Microelectronics Solution Manual 4th Neamen eBook Formats

- ePub, PDF, MOBI, and More
- Microelectronics Solution Manual 4th Neamen Compatibility with Devices
- Microelectronics Solution Manual 4th Neamen Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Microelectronics Solution Manual 4th Neamen
- Highlighting and Note-Taking Microelectronics Solution Manual 4th Neamen
- Interactive Elements Microelectronics Solution Manual 4th Neamen

8. Staying Engaged with Microelectronics Solution Manual 4th Neamen

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Microelectronics Solution Manual 4th Neamen

9. Balancing eBooks and Physical Books Microelectronics Solution Manual 4th Neamen

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Microelectronics Solution Manual 4th Neamen

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Microelectronics Solution Manual 4th Neamen

- Setting Reading Goals Microelectronics Solution Manual 4th Neamen
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Microelectronics Solution Manual 4th Neamen

- Fact-Checking eBook Content of Microelectronics Solution Manual 4th Neamen
- 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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