

Equilibrium Carrier Concentration

In silicon and other semiconductors,

$$n_0 = N_c \exp\left(\frac{-(E_c - E_F)}{kT}\right) \quad \text{conduction band}$$

$$p_0 = N_v \exp\left(\frac{-(E_F - E_v)}{kT}\right) \quad \text{valence band}$$

n_0 : electron concentration at thermal equilibrium (cm^{-3})

p_0 : hole concentration at thermal equilibrium (cm^{-3})

N_c : effective density of states for conduction band (cm^{-3})

N_v : effective density of states for valence band (cm^{-3})

E_F : Fermi energy (eV)

k : Boltzmann constant (J/K)

T : absolute temperature (K)

Semiconductor Equations

Roman Wölfel



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Table of Contents Semiconductor Equations

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

- ePub, PDF, MOBI, and More
- Semiconductor Equations Compatibility with Devices
- Semiconductor Equations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semiconductor Equations
 - Highlighting and Note-Taking Semiconductor Equations
 - Interactive Elements Semiconductor Equations
- 8. Staying Engaged with Semiconductor Equations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semiconductor Equations
- 9. Balancing eBooks and Physical Books Semiconductor Equations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semiconductor Equations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Semiconductor Equations
 - Setting Reading Goals Semiconductor Equations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Semiconductor Equations
 - Fact-Checking eBook Content of Semiconductor Equations
 - 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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