

PH2161 ENGINEERING PHYSICS IMPORTANT 2 MARKS AND 16 MARKS

I UNIT-CONDUCTING MATERIALS

Part – A

Define mobility give its unit.

Define Drift velocity.

What are the drawbacks of classical free electron theory.

Define Mean free path.

Define Collision Time.

Define Electrical Conductivity.

Define Thermal Conductivity.

State Wiedemann-Franz law.

Define Lorentz number.

Define relaxation time of an electron.

What is Planck's Hypothesis?

State Planck's radiation – law.

Define Compton-effect.

Write Planck's radiation formula.

Write down Schrodinger time independent and time dependent wave equation with symbol.

Give the physical significance of wave function.

What are the eigen value and eigen function?

Write Fermi-Dirac distribution formula.

Define Fermi level and Fermi Energy with its importance.

How does Fermi function vary with temperature

what is work function.

What are bound and free electrons?

For Copper the relaxation time is 10^{-14} seconds. The free electron density is

$2 \times 10^{28}/m^3$. Calculate its electrical conductivity.

What is the probability of an electron being thermally promoted to the Conduction band in

silicon ($E_g = 1.07$ eV) at $25^\circ C$?

Give the expression for change in wavelength of a scattered X-ray Photon.

Part-B

Derive the electrical conductivity of a metal based on classical free electron theory.

Derive the thermal conductivity of a metal based on classical free electron theory.

State and Prove Wiedemann-Franz law.

What is Compton Effect? Give the theory of Compton Effect and Show that the Compton shift

$\Delta\lambda = \frac{h}{m_0c} (1 - \cos\theta)$.

Explain the application of Schrodinger wave equation to a one Dimensional Potential well.

Derive Time independent Schrodinger wave equation and hence deduce the time dependent

Schrodinger equation.

Describe the energy band theory of solids with the help of neat band diagram. Distinguish

between metals insulator and semiconductor on the basis of band theory.

Derive the expression for Planck's theory of Black body radiation.

Unit- II SEMI CONDUCTORS MATERIALS

Part – A

Ph2161 Engineering Physics

Sabine Zange



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Table of Contents Ph2161 Engineering Physics

1. Understanding the eBook Ph2161 Engineering Physics
 - The Rise of Digital Reading Ph2161 Engineering Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Ph2161 Engineering Physics
 - 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 Ph2161 Engineering Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ph2161 Engineering Physics
 - Personalized Recommendations
 - Ph2161 Engineering Physics User Reviews and Ratings
 - Ph2161 Engineering Physics and Bestseller Lists
5. Accessing Ph2161 Engineering Physics Free and Paid eBooks
 - Ph2161 Engineering Physics Public Domain eBooks
 - Ph2161 Engineering Physics eBook Subscription Services
 - Ph2161 Engineering Physics Budget-Friendly Options

6. Navigating Ph2161 Engineering Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Ph2161 Engineering Physics Compatibility with Devices
 - Ph2161 Engineering Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ph2161 Engineering Physics
 - Highlighting and Note-Taking Ph2161 Engineering Physics
 - Interactive Elements Ph2161 Engineering Physics
8. Staying Engaged with Ph2161 Engineering Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ph2161 Engineering Physics
9. Balancing eBooks and Physical Books Ph2161 Engineering Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ph2161 Engineering Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ph2161 Engineering Physics
 - Setting Reading Goals Ph2161 Engineering Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ph2161 Engineering Physics
 - Fact-Checking eBook Content of Ph2161 Engineering Physics
 - 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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