

9. Give any four property changes that can be observed when a bulk material is synthesized as nanomaterial.

10. What are metallic glasses?

PART B — (5 × 16 = 80 marks)

11. (a) What are the basic assumptions of classical free electron theory? Based on the assumptions derive an expression for electrical and thermal conductivity of metals. What are the success and failures of the theory? (2 + 10 + 4)

Or

(b) Explain the concept of density of energy states. Derive an expression for density of energy states, using the expression find an expression for Fermi energy level for metals at 0 K. (2 + 10 + 4)

12. (a) Describe the formation of n-type semiconductor with energy band diagram. Derive an expression for density of charge carriers and explain how the charge carrier density varies with temperature. (2 + 10 + 4)

Or

(b) (i) Explain Hall effect in semiconductors. Derive an expression for Hall co-efficient. Explain how Hall probe is used to detect weak magnetic fields. (2 + 6 + 4)

(ii) A rectangular slab of silicon of thickness 1 mm is placed in the region of the magnetic field perpendicular to the field and the current in the slab is 20 mA, the Hall voltage is 150 μ V. The free electron concentration of that particular silicon is 6×10^{24} electrons/m³. What is the strength of the magnetic field? (4)

13. (a) (i) Explain domain theory of ferromagnetism. (8)
(ii) What is hysteresis? Explain how magnetic materials are classified based on the hysteresis property. (8)

Or

(b) (i) Explain high temperature superconductors with examples. (8)

(ii) Explain the working principle of SQUID and Cryotron. (8)

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DP Hallahan



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1. Understanding the eBook Engineering Physics 2 Model Question Paper
 - The Rise of Digital Reading Engineering Physics 2 Model Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Physics 2 Model Question Paper
 - 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 Engineering Physics 2 Model Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Physics 2 Model Question Paper
 - Personalized Recommendations
 - Engineering Physics 2 Model Question Paper User Reviews and Ratings
 - Engineering Physics 2 Model Question Paper and Bestseller Lists

5. Accessing Engineering Physics 2 Model Question Paper Free and Paid eBooks
 - Engineering Physics 2 Model Question Paper Public Domain eBooks
 - Engineering Physics 2 Model Question Paper eBook Subscription Services
 - Engineering Physics 2 Model Question Paper Budget-Friendly Options
6. Navigating Engineering Physics 2 Model Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Physics 2 Model Question Paper Compatibility with Devices
 - Engineering Physics 2 Model Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Physics 2 Model Question Paper
 - Highlighting and Note-Taking Engineering Physics 2 Model Question Paper
 - Interactive Elements Engineering Physics 2 Model Question Paper
8. Staying Engaged with Engineering Physics 2 Model Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Physics 2 Model Question Paper
9. Balancing eBooks and Physical Books Engineering Physics 2 Model Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Physics 2 Model Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Engineering Physics 2 Model Question Paper
 - Setting Reading Goals Engineering Physics 2 Model Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Physics 2 Model Question Paper
 - Fact-Checking eBook Content of Engineering Physics 2 Model Question Paper
 - 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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