

where k is the spring constant and g is the acceleration due to gravity.

Three marks questions & answers

1. Derive the expression for magnetic force in a current carrying conductor. $(4 \times 2 = 8)$
 Consider a rod of a uniform cross-sectional area A and length l put in the uniform density of charge carrier of free electrons n .
 Then the total number of mobile charge particles is nAl . Assume that these charge carriers are under motion with a drift velocity v_d .
 so that the current is $I = nAev_d$. Hence in the rod of length l each charge carrier experiences an external magnetic force $q\vec{v}_d \times \vec{B}$. And this will be the magnetic force on that current density I is equal

$$F = I l B \sin \theta$$

But $\sin \theta = 1$ the density current is the conductor then

$$F = I l B$$

2. Obtain the expression for radius of circular path considered by a charge in a magnetic field.

Assume that a charged particle of q is moving perpendicular to the uniform magnetic field B in $\vec{v} \perp \vec{B}$. The charged particle moves with v and B with an perpendicular force. then producing a uniform circular motion for the particle in a plane perpendicular to the field.



The centripetal force $F_c = \frac{mv^2}{r}$ is provided by the magnetic force $F_m = qvB$. Hence in this case the particle is in the plane of the circular path is

$$r = \frac{mv}{qB}$$

3. State and explain the Lorentz force.

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Table of Contents Practice Page 36 1 Magnetism Answers

1. Understanding the eBook Practice Page 36 1 Magnetism Answers
 - The Rise of Digital Reading Practice Page 36 1 Magnetism Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice Page 36 1 Magnetism Answers
 - 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 Practice Page 36 1 Magnetism Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice Page 36 1 Magnetism Answers
 - Personalized Recommendations
 - Practice Page 36 1 Magnetism Answers User Reviews and Ratings
 - Practice Page 36 1 Magnetism Answers and Bestseller Lists

5. Accessing Practice Page 36 1 Magnetism Answers Free and Paid eBooks
 - Practice Page 36 1 Magnetism Answers Public Domain eBooks
 - Practice Page 36 1 Magnetism Answers eBook Subscription Services
 - Practice Page 36 1 Magnetism Answers Budget-Friendly Options
6. Navigating Practice Page 36 1 Magnetism Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Practice Page 36 1 Magnetism Answers Compatibility with Devices
 - Practice Page 36 1 Magnetism Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Practice Page 36 1 Magnetism Answers
 - Highlighting and Note-Taking Practice Page 36 1 Magnetism Answers
 - Interactive Elements Practice Page 36 1 Magnetism Answers
8. Staying Engaged with Practice Page 36 1 Magnetism Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice Page 36 1 Magnetism Answers
9. Balancing eBooks and Physical Books Practice Page 36 1 Magnetism Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice Page 36 1 Magnetism Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Practice Page 36 1 Magnetism Answers
 - Setting Reading Goals Practice Page 36 1 Magnetism Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice Page 36 1 Magnetism Answers
 - Fact-Checking eBook Content of Practice Page 36 1 Magnetism Answers
 - 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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