

Answers

1. (a)	2. (d)	3. (c)	4. (b)	5. (b)	6. (b)	7. (a)	8. (b)
9. (b)	10. (d)	11. (a)	12. (a)	13. (b)	14. (b)	15. (d)	16. (a)
17. (c)	18. (b)	19. (d)	20. (d)	21. (a)	22. (a)	23. (c)	24. (b)
25. (b, d)	26. (c, d)	27. (b, c)	28. (a, b)	29. (a, b)	30. (b, d)	31. (a, d)	32. (a, b)
33. (b, c)	34. (a, b, c)	35. (a, b)					

Solutions

$$1. \quad B = \frac{\mu_0 I}{4r} = \frac{4\pi \times 10^{-7} \times 8}{4 \times 10 \times 10^{-2}} \quad T = 8\pi \times 10^{-6} \text{ T}$$

$$F = BIl$$

$$\frac{F}{l} = BI = 8\pi \times 10^{-6} \times 8 \text{ N m}^{-1} = \frac{64\pi}{1000} \text{ mN m}^{-1}$$

$$= 0.20 \text{ mN m}^{-1}$$

$$2. \quad F = Bid$$

$$\text{acceleration} = \frac{Bid}{m}$$

$$\text{Velocity} = \frac{Bidt}{m}$$

$$3. \quad F = BIl = 1.5 \times 10^{-2} \times 10 \times 0.08 \text{ N} = 1.2 \times 10^{-2} \text{ N}$$

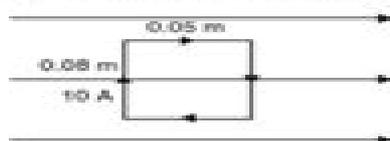


Fig. 304

$$\tau = 1.2 \times 10^{-2} \times 0.05 \text{ N m} = 6 \times 10^{-4} \text{ N m}$$

$$4. \quad B = \frac{\mu_0 2I}{r} - \frac{\mu_0 I}{r} = \frac{\mu_0 I}{r}$$

$$\text{New} \quad B' = \frac{\mu_0 (2I)}{r} = 2B$$

$$5. \quad S = \frac{GI_g}{I - I_g} = \frac{5 \times 15}{6 - 15} \Omega = \frac{7.5}{4.5} \Omega = \frac{5}{3} \Omega$$

6. Like currents attract and unlike currents repel.



Fig. 305

7. The magnetic field set up by current in the coil is as follows:

Since B_1 , magnetic field experienced by the compass is numerically equals to B_2 , the Earth's magnetic field,

the resultant field is B as indicated in the diagram. Deflection of needle in compass is thus best illustrated in diagram A.



Fig. 306

$$8. \quad S = \frac{50 \times 10 \times 10^{-3}}{1 - 10 \times 10^{-3}} \Omega = \frac{0.5 \times 100}{99} \Omega = \frac{50}{99} \Omega$$

9. Force acting on wire has a magnitude given by



Fig. 307

$$F = lB = (50)(0.03)(0.040) = 0.006 \text{ N}$$

$$10. \quad B_1 = \sqrt{B^2 + B^2} = \sqrt{2B^2} = \sqrt{2}B$$

$$\frac{B_1}{B} = \frac{\sqrt{2}}{1}$$

11. The forces on PQ and RS are equal in magnitude and opposite in direction. Hence, no net resultant force in the XY direction. The force per unit length on PS due to currents in XY and QS is given by

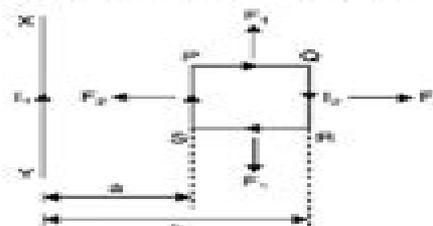


Fig. 308

Green Lantern Physics Answer Key

Jicheng Xie



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Table of Contents Green Lantern Physics Answer Key

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

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