

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. $B = \frac{\mu_0 I}{4r} = \frac{4\pi \times 10^{-7} \times 8}{4 \times 10 \times 10^{-2}} \text{ T} = 8\pi \times 10^{-6} \text{ T}$
 $F = BIl$
 $\frac{F}{l} = BI = 8\pi \times 10^{-6} \times 8 \text{ N m}^{-1} = \frac{64\pi}{1000} \text{ mN m}^{-1}$
 $= 0.20 \text{ mN m}^{-1}$

2. $F = Bid$
 acceleration = $\frac{Bid}{m}$
 Velocity = $\frac{Bidt}{m}$

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



Fig. 304

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

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

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

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

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

9. Force acting on wire has a magnitude given by



Fig. 307

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

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

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

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

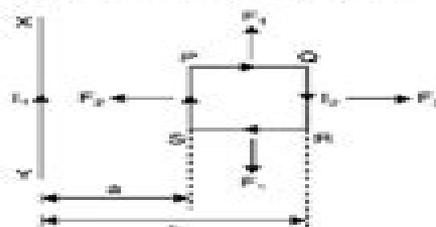


Fig. 308

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Willie Jackson



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Table of Contents College Physics Solution Manual Answer Key Sound

1. Understanding the eBook College Physics Solution Manual Answer Key Sound
 - The Rise of Digital Reading College Physics Solution Manual Answer Key Sound
 - Advantages of eBooks Over Traditional Books
2. Identifying College Physics Solution Manual Answer Key Sound
 - 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 College Physics Solution Manual Answer Key Sound
 - User-Friendly Interface
4. Exploring eBook Recommendations from College Physics Solution Manual Answer Key Sound
 - Personalized Recommendations

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

- 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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