

**6.2** Use Lenz's law to determine the direction of induced current in the situations described by Fig. 6.19:

(a) A wire of irregular shape turning into a circular shape;

(b) A circular loop being deformed into a narrow straight wire.

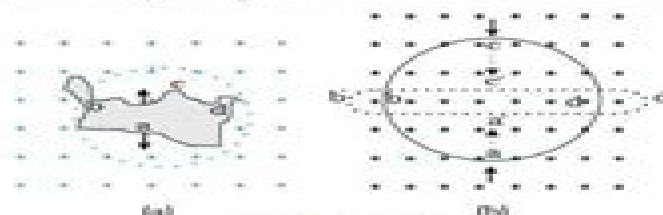


FIGURE 6.19

**6.3** A long solenoid with 15 turns per cm has a small loop of area  $2.0 \text{ cm}^2$  placed inside the solenoid normal to its axis. If the current carried by the solenoid changes steadily from  $2.0 \text{ A}$  to  $4.0 \text{ A}$  in  $0.1 \text{ s}$ , what is the induced emf in the loop while the current is changing?

**6.4** A rectangular wire loop of sides  $8 \text{ cm}$  and  $2 \text{ cm}$  with a small cut is moving out of a region of uniform magnetic field of magnitude  $0.3 \text{ T}$  directed normal to the loop. What is the emf developed across the cut if the velocity of the loop is  $1 \text{ cm s}^{-1}$  in a direction normal to the (a) longer side, (b) shorter side of the loop? For how long does the induced voltage last in each case?

**6.5** A  $1.0 \text{ m}$  long metallic rod is rotated with an angular frequency of  $400 \text{ rad s}^{-1}$  about an axis normal to the rod passing through its one end. The other end of the rod is in contact with a circular metallic ring. A constant and uniform magnetic field of  $0.5 \text{ T}$  parallel to the axis exists everywhere. Calculate the emf developed between the centre and the ring.

**6.6** A circular coil of radius  $8.0 \text{ cm}$  and 20 turns is rotated about its vertical diameter with an angular speed of  $50 \text{ rad s}^{-1}$  in a uniform horizontal magnetic field of magnitude  $3.0 \times 10^{-2} \text{ T}$ . Obtain the maximum and average emf induced in the coil. If the coil forms a closed loop of resistance  $10 \Omega$ , calculate the maximum value of current in the coil. Calculate the average power loss due to Joule heating. Where does this power come from?

**6.7** A horizontal straight wire  $10 \text{ m}$  long extending from east to west is falling with a speed of  $5.0 \text{ m s}^{-1}$ , at right angles to the horizontal component of the earth's magnetic field,  $0.30 \times 10^{-4} \text{ Wb m}^{-2}$ .

(a) What is the instantaneous value of the emf induced in the wire?

(b) What is the direction of the emf?

(c) Which end of the wire is at the higher electrical potential?

**6.8** Current in a circuit falls from  $5.0 \text{ A}$  to  $0.0 \text{ A}$  in  $0.1 \text{ s}$ . If an average emf of  $200 \text{ V}$  is induced, give an estimate of the self-inductance of the circuit.

**6.9** A pair of adjacent coils has a mutual inductance of  $1.5 \text{ H}$ . If the current in one coil changes from  $0$  to  $20 \text{ A}$  in  $0.5 \text{ s}$ , what is the change of flux linkage with the other coil?

**6.10** A jet plane is travelling towards west at a speed of  $1800 \text{ km/h}$ . What is the voltage difference developed between the ends of the wing

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### **Table of Contents Grade 1june Pphysics**

1. Understanding the eBook Grade 1june Pphysics
  - The Rise of Digital Reading Grade 1june Pphysics
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1june Pphysics
  - 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 Grade 1june Pphysics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1june Pphysics
  - Personalized Recommendations
  - Grade 1june Pphysics User Reviews and Ratings

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