

## Big Picture

Magnetic fields are caused by the spinning of individual electrons. In objects that do not exhibit any magnetic properties, the spin of the electrons is random so there is no net magnetic field. In objects that do exhibit magnetic properties, the electrons' spins have been aligned with each other so that they create a net magnetic field. Magnetic fields are similar to electric fields in that they interact with charged objects, but it is important to remember that magnetic fields only interact with charged objects when they're moving perpendicular to the direction of the field (if it's not moving perpendicular, use the component of the object's motion that is perpendicular).

## Key Terms

**Electromagnetism:** The relationship between electricity and magnetism - the two come hand in hand, since electric currents produce magnetic fields!

**Magnetic Field:** The region surrounding a magnetic source in which the magnet has a detectable magnetic force. Magnetic materials and electrical currents both can create magnetic fields. SI units: T



*Both magnetic and electric fields store energy and can be thought of as vector force fields that move particles in specific directions.*

**Magnetic Field Lines:** Invisible lines that indicate the magnetic field of an area. They have a direction and point away from the north pole towards the south pole. Similar to electric fields, the density of the magnetic field lines indicates the strength of the field. In the picture below, we can see the magnetic field is strongest near the poles of the magnet.



Image Credit: Pixiv2, CC-BY-SA 3.0

**Magnetic Flux:** Measures how much magnetic field passes perpendicularly through a given area. We can think of it as how many magnetic field lines pass through the region. SI units: Wb

**Solenoid:** A coil of wires with turns that generates a uniform magnetic field.

## Calculating Magnetic Fields

### Magnetic Field of a Wire

$$B = \frac{\mu_0 I}{2\pi r}, \quad B = \text{magnetic field at a distance } r \text{ away from the wire}$$

$$\mu_0 = \text{permeability of free space } (= 4\pi \times 10^{-7} \frac{\text{T} \cdot \text{m}}{\text{A}})$$

**First Right Hand Rule:**

To find the direction of the magnetic field around a wire, point your thumb in the direction of the current and curl your fingers - that is the direction of the magnetic field!



*Test Taking Tip: It may seem obvious, but remember to use your right hand! If you use your left hand to write, it is easy to forget and accidentally use your left hand.*

**Electromagnetic Induction:** When a current is induced in a conductor moving through a magnetic field.

To induce a current in a wire, we must change the magnetic flux. To do so, we can change the magnetic field, change the wire's orientation/area, or move the wire out of the magnetic field.

**Inductance:** The resistance of a wire to a change in current. SI units: H

**Self Inductance:** When the current in a wire changes, it creates a back emf, an induced voltage that opposes any change in current.

**Mutual Inductance:** The current in one coil of wire affects the current in another (induces an emf).

**Inductors:** Inductors resist changes in current by creating a back emf. They are usually no more than a coil of wires that wrap around a magnetic core.

**Faraday's Law:** The induced emf is proportional to the rate of change of the magnetic flux.

**Lenz's Law:** The induced current will always flow in the direction that generates a magnetic field to oppose the change in flux.

**RL Circuits:** Circuit made up of a resistor, inductor, and voltage source.

**LC Circuits:** Circuit made up of an inductor and a fully charged capacitor.

**RLC Circuits:** Circuit made up of an inductor, resistor, and fully charged capacitor.

**Hall Effect:** An effect observed when current passes through a conductor perpendicular to a magnetic field. The magnetic field will exert a force perpendicular to the direction of the current, pushing the electrons to one side of the conductor and creating a potential difference across the two sides of the conductor.



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# Physic Study Guide Magnetism

**Lei Shi**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Physic Study Guide Magnetism**

1. Understanding the eBook Physic Study Guide Magnetism
  - The Rise of Digital Reading Physic Study Guide Magnetism
  - Advantages of eBooks Over Traditional Books
2. Identifying Physic Study Guide Magnetism
  - 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 Physic Study Guide Magnetism
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physic Study Guide Magnetism
  - Personalized Recommendations
  - Physic Study Guide Magnetism User Reviews and Ratings
  - Physic Study Guide Magnetism and Bestseller Lists
5. Accessing Physic Study Guide Magnetism Free and Paid eBooks

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