

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.

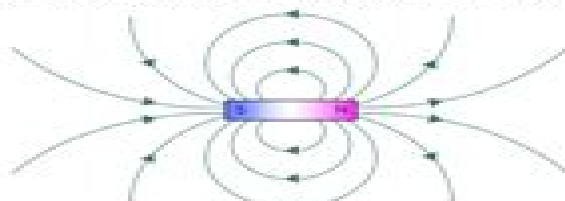


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Magnetic Flux: Measures how much magnetic field passes perpendicularly through a given area. We can think of it as how many magnetic field lines pass through the region. SI units: Wb

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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Understanding Magnetism Study Guide

Andrew Jamieson



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through the compass's historical journey from ancient China to its adoption by mariners during the Age of Exploration and culminates in its integration into modern navigational systems. By bridging Earth Sciences History and Geography, The Compass Guide offers a comprehensive understanding of how this seemingly simple instrument fostered cultural exchange and enabled the discovery of new lands.

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Student Study Guide and Selected Solutions Manual, Volume 2 Bo Lou, 2006-05

Magnets and Motors, 1991-01-01. A guide for teaching about magnets and motors through direct observation and experiments.

Elementary manual of magnetism and electricity Andrew Jamieson, 1889

Complete Study Guide For Ntse (Mat+Sat) For Class 10 Dr Rajesh Thakur, Dr S R Singh, Subhash Jain, Mamta Mehrotra, 2023-06-28. A COMPLETE STUDY GUIDE FOR NTSE by DR RAJESH THAKUR, DR S R SINGH, SUBHASH JAIN, MAMTA MEHROTRA. A Complete Study Guide for NTSE published by Prabhat Prakashan is a comprehensive resource designed to help students preparing for the National Talent Search Examination (NTSE). Authored by Dr Rajesh Thakur, Dr S R Singh, Subhash Jain, and Mamta Mehrotra, this guide offers extensive coverage of the NTSE syllabus, including a wide range of subjects and practice questions. It serves as an essential companion for students aiming to excel in the prestigious NTSE and maximize their chances of success.

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A Student's Guide Through the Great Physics Texts Kerry Kuehn, 2015-12-14 This book provides a chronological introduction to the electromagnetic theory of light using selected extracts from classic texts such as Gilbert's De Magnete Franklin's Experiments and Observations on Electricity and Huygens Treatise on Light Particular attention is given to the works of Faraday Maxwell and Heaviside scientists who unified the formerly separate disciplines of electricity magnetism and light Their electromagnetic theory developed during the 19th century would lead to the invention of modern radar electrical power grids and telecommunication networks Each chapter of this book begins with a short introduction followed by a reading selection Carefully crafted study questions draw out key points in the text and focus the reader's attention on the author's methods analysis and conclusions Numerical and laboratory exercises at the end of each chapter test the reader's ability to understand and apply key concepts from the text Electricity Magnetism and Light is the third of four volumes in A Student's Guide through the Great Physics Texts This book grew out of a four semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics This book is particularly suitable as a college level textbook for students of the natural sciences history or philosophy It can also serve as a textbook for advanced high school or home schooled students or as a thematically organized source book for scholars and motivated lay readers In studying the classic scientific texts included herein the reader will be drawn toward a lifetime of contemplation

Trade and Industrial Education; Instructional Materials Ohio State University. Center for Vocational and Technical Education, 1972

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