

## 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.

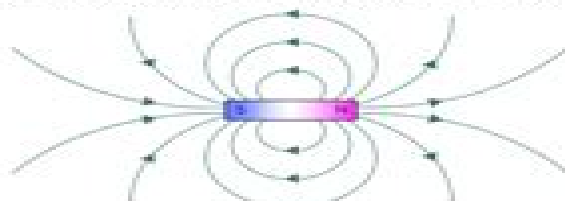


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**Magnetic Flux:** Measures how much magnetic field passes perpendicularly through a given area. We can think of it as how many magnetic field lines pass through the region. SI units: Wb

**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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# Magnetism Study Guide

**Anthea Maton**



## **Magnetism Study Guide:**

*Study Guide for Fundamentals of Radio* Gerald W. Sielaff, 1963      *Electricity and Magnetism* Gil Urquhart, Terry L. E. Henderson, 1998 Produced for unit SEP102 Physics 1B offered by the Faculty of Science and Technology's School of Engineering and Technology in Deakin University's Open Campus Program      **Student Study Guide and Solutions Manual** Bo Lou, 2002-08      *Student Study Guide and Selected Solutions Manual, Volume 2* Bo Lou, 2006-05      **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents      **Electricity and Magnetism** , 2005      **Physics C (Electricity & Magnetism) (AP-18): Passbooks**

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