

Electromagnetism Study Guide

I. Magnetism

- **Definition:** Magnetism is a force caused by the movement of electric charges.
- **Magnets:**
 - Objects that produce a magnetic field.
 - Have a north and south pole.
 - Like poles repel, opposite poles attract.
 - **Permanent Magnets:** Retain their magnetism (e.g., bar magnets).
 - **Temporary Magnets:** Lose their magnetism when the magnetizing force is removed (e.g., electromagnets).
- **Magnetic Field:** The area around a magnet where magnetic force is exerted.
 - Represented by magnetic field lines.
 - Lines go from north pole to south pole.
- **Ferromagnetism:**
 - Materials strongly attracted to magnets (iron, nickel, cobalt).
 - Contain magnetic domains where atomic magnetic fields align.

II. Electromagnetism

- **Relationship:** The interaction between electricity and magnetism.
- **Oersted's Discovery:** An electric current creates a magnetic field around a wire.
- **Right-Hand Rule:** Determines the direction of the magnetic field around a current-carrying wire.
 - Thumb points in the direction of current.
 - Fingers curl in the direction of the magnetic field.
- **Solenoid:** A coil of wire that produces a magnetic field when an electric current passes through it.

III. Electromagnets

- **Definition:** A temporary magnet created by an electric current flowing through a coil of wire (solenoid).
- **Strength Factors:**
 - Increase the current.
 - Increase the number of turns in the coil.
 - Add an iron core.

Study Guide Electromagnetism

Richard Bailey



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