

- The flow of electric charge.
 - Measured in Amperes (A).
 - Conventional current: direction of positive charge flow (opposite to electron flow in most conductors).
- **Resistance (R):**
 - Opposition to the flow of electric current.
 - Measured in Ohms (Ω).
 - Depends on material, length, and cross-sectional area.
- **Ohm's Law:** Relates voltage, current, and resistance in a circuit: $V = IR$.
- **Magnetic Force (F_b):**
 - The force exerted on moving electric charges and magnetic materials.
 - A moving charge in a magnetic field experiences a force perpendicular to both its velocity and the magnetic field (given by the right-hand rule).
 - Force on a current-carrying wire in a magnetic field: $F = ILB\sin\theta$ (I : current, L : length of wire in field, B : magnetic field strength, θ : angle between current and field).
- **Magnetic Field (B):**
 - A region of space around a magnet or a moving electric charge where a magnetic force is exerted.
 - Vector quantity (has magnitude and direction).
 - Measured in Tesla (T).
 - Magnetic field lines: visual representation (form closed loops, originate from North, enter South outside the magnet).
- **Sources of Magnetic Fields:**
 - Permanent magnets (due to the intrinsic magnetic moment of electrons).
 - Moving electric charges (electric current).
 - Current-carrying wires create circular magnetic fields around them (right-hand rule).
 - Solenoids (coils of wire) create a relatively uniform magnetic field inside.

II. Electromagnetism: The Interconnection:

- **Oersted's Discovery:** Electric current produces a magnetic field.

Electromagnetism Study Guide

Mark Steyvers



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