

Electromagnetism Study Guide

This study guide covers the fundamental concepts of electromagnetism. Use it to review lecture notes, readings, and practice problems.

I. Fundamental Concepts:

- **Electric Charge (q):**
 - Two types: positive and negative.
 - Like charges repel, opposite charges attract.
 - Quantized: occurs in discrete units of the elementary charge (e).
 - Measured in Coulombs (C).
- **Electric Force (F_e):**
 - The force exerted between charged objects.
 - **Coulomb's Law:** Describes the magnitude of the electric force between two point charges:
 - $F = k \cdot |q_1 \cdot q_2| / r^2$
 - k : Coulomb's constant (approximately $8.99 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2$)
 - q_1, q_2 : magnitudes of the charges
 - r : distance between the charges
- **Electric Field (E):**
 - A region of space around a charged object where another charged object would experience an electric force.
 - Defined as the force per unit positive charge: $E = F/q_0$
 - Vector quantity (has magnitude and direction).
 - Electric field lines: visual representation of the electric field (originate from positive, terminate on negative, density indicates strength).
- **Electric Potential (V):**
 - Electric potential energy per unit charge.
 - Scalar quantity.
 - Measured in Volts (V).
 - Potential difference (ΔV or Voltage): the work done per unit charge to move a charge between two points in an electric field.
- **Electric Current (I):**

Physics Electromagnetism Study Guide Key

Yan Bai



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