

Chapter 1: Electric Charges and Fields

1. Coulomb's Law:

- **Definition:** The force between two point charges is directly proportional to the product of their magnitudes and inversely proportional to the square of the distance between them.
- **Formula:** $F = k \frac{q_1 q_2}{r^2}$, where $k = \frac{1}{4\pi\epsilon_0}$.
- **Derivation:** Not required, but understand the proportionality and dependence on medium.

2. Electric Field:

- **Definition:** The electric field at a point is the force experienced by a unit positive charge placed at that point.
- **Formula:** $\vec{E} = \frac{\vec{F}}{q_0}$.
- **Derivation:** Electric field due to a point charge q is $\vec{E} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \hat{r}$.

3. Electric Dipole:

- **Definition:** A pair of equal and opposite charges separated by a small distance.
- **Electric Field due to Dipole:**
 - On axial line: $E = \frac{1}{4\pi\epsilon_0} \frac{2p}{r^3}$.
 - On equatorial line: $E = \frac{1}{4\pi\epsilon_0} \frac{p}{r^3}$.

4. Gauss's Law:

- **Definition:** The total electric flux through a closed surface is $\frac{1}{\epsilon_0}$ times the total charge enclosed by the surface.
- **Formula:** $\oint \vec{E} \cdot d\vec{A} = \frac{q_{enc}}{\epsilon_0}$.
- **Derivation:** Used to find electric field due to symmetric charge distributions (e.g., infinite plane sheet, charged conductor).

Chapter 2: Electrostatic Potential and Capacitance

1. Electric Potential:

- **Definition:** Work done to bring a unit positive charge from infinity to a point in the electric field.
- **Formula:** $V = \frac{W}{q_0}$.
- **Derivation:** Potential due to a point charge q is $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r}$.

2. Capacitance:

- **Definition:** The ability of a conductor to store charge per unit potential.
- **Formula:** $C = \frac{Q}{V}$.
- **Derivation:** Capacitance of a parallel plate capacitor $C = \frac{\epsilon_0 A}{d}$.

3. Energy Stored in a Capacitor:

- **Formula:** $U = \frac{1}{2} CV^2$.
- **Derivation:** Work done to charge a capacitor.

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