

- Charge per unit length ( $\Delta Q / \Delta L$ ) of straight conductor is called **linear charge density**.
- When charged particle is subjected to electrical field, then its acceleration is  $qE/m$ .
- When charge particle is given to hollow sphere, it resides on outer surface only but not on inner surface.
- We can charge a particle by two methods:
  - a. Induction (without physical contact).
  - b. Conduction (with physical contact).

## Electrical Forces

Coulomb found that electrical force between two point charges is:

1. Directly proportional to product of magnitude of the charges.
2. Inversely proportional to square of distance between them.
3. Act along line joining them.

Mathematically,

$$F_e = k \frac{q_1 q_2}{r^2}$$

Where,  $k = 9 \times 10^9 Nm^2/C^2$

In Vacuum, and using S.I units

$$k = 1/4\pi\epsilon_o$$

Where,  $\epsilon_o$  is permittivity of free space.

$$\epsilon_o = 8.85 \times 10^{-12} C^2/Nm^2$$

- $\overline{F_{12}} = -\overline{F_{21}}$  shows that electrical forces form an action-reaction pair.
- Coulomb's law obeys **inverse square law**.

# Electrostatics Study Guide

**Thomas Griffiths**



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