

PHYSICS 2<sup>ND</sup> YEAR CHAPTER 12 ELECTROSTATICS

## INTRODUCTION

**\*Electrostatics:** The branch of Physics which deals with the study of charges at rest under the action of electric force is called **Electrostatics**.

**Electric charge;**

An intrinsic property of fundamental particles which takes parts in conduction process is called electric charge. Either they repel or attract each other.

**Kinds of charges**

There are two types of charge, **positive** and **negative**, charge on proton is positive and charge on electron is negative.

**SI unit of charge;** SI unit of charge is **coulomb**

**How many electrons one Coulomb:**  $6.25 \times 10^{18}$  electrons.

**Electric force**

The force which hold the positive and negative charges to make up atoms and molecules is called electric force.

**\*Types of electric force**

**Repulsive force:** The force b/w two same charges (The force b/w two electrons.)

**Attractive force:** The force b/w two different charges (The force b/w electron and proton)

**\*Basic law of electrostatics for knowing the nature of charge**

"Like/same charges repel each other, while unlike/different charges attract each other"

**\*Q. STATE AND EXPLAIN COLOMB LAW, DISCUSS ITS VECTORIAL FORM AND GIVE EFFECT OF MEDIUM ON IT.**

In 1784, French military engineer Charles Coulomb deduced a law known as Coulomb law which measure the force b/w two charges.

**Statement:** "The force of attraction or repulsion b/w two charges is directly proportional to the product of the magnitude of charges and inversely proportional to the square of distance b/w them".

Mathematically: -

$$F \propto q_1 q_2 \quad \text{and} \quad F \propto \frac{1}{r^2} \quad \longrightarrow \quad F = K \frac{q_1 q_2}{r^2}$$

**K (Coulomb Constant):** K is called Coulomb constant, whose value is  $9 \times 10^9 \text{ Nm}^2\text{C}^{-2}$ .

The value of K depends upon: - a) the system of units - b) Nature of medium b/w charges

If medium is free space then  $K = \frac{1}{4\pi\epsilon_0}$ ,  $\epsilon_0$  is permittivity of free space its value in SI unit is

$$8.85 \times 10^{-12} \text{ N}^{-1}\text{m}^{-2}\text{C}^2, \text{ so Coulomb law becomes } F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$$

This is mathematical form of Coulomb law.

**Vectorial form of Coulomb law;** let us consider two point charges  $q_1$  and  $q_2$ .

if  $q_1$  exert a force on  $q_2$  then  $q_2$  also exert a force on  $q_1$ , which is equal in magnitude but opposite in direction as shown in fig

$$\vec{F}_{12} = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2} \hat{r}_{12} \quad \text{----- (1)}$$

$$\vec{F}_{21} = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2} \hat{r}_{21} \quad \text{----- (2)}$$

Both forces are equal but opposite in direction so

$$\vec{F}_{12} = -\vec{F}_{21}$$

This is called Vectorial form of Coulomb Law.

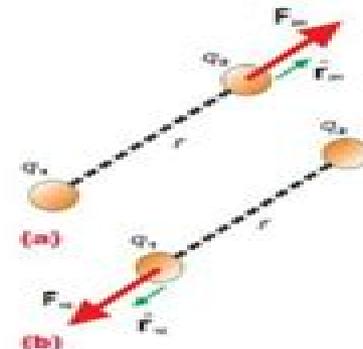
**Effect of medium on Coulomb force:** Coulomb force is reduced when medium is placed b/w two charges.

The insulating medium placed b/w two charges is called dielectric like Teflon etc. so formula for Coulomb force becomes

$$F = \frac{1}{4\pi\epsilon_0 \epsilon_r} \frac{q_1 q_2}{r^2} \quad \epsilon_r \text{ is relative permittivity, its value is different for different dielectrics, and its value is greater}$$

than one other than vacuum. For air  $\epsilon_r = 1.0006$ , for vacuum  $\epsilon_r = 1$ .

**Limitation of Coulomb law:** Coulomb law is applied only on point charges.



# Applied Mathematics For Engine Phy 2nd Edition

**Terry C. Jones**



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