

PHYSICS 2ND 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: 6.25×10^{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 $K = \frac{1}{4\pi\epsilon_0}$, ϵ_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

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

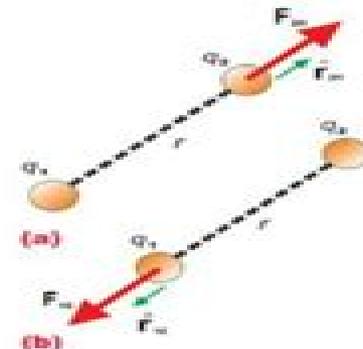
This is called Vectorial form of Coulomb Law.

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

$$F = \frac{1}{4\pi\epsilon_0 \epsilon_r} \frac{q_1 q_2}{r^2} \quad \epsilon_r \text{ is relative permittivity, its value is different for different dielectrics, and its value is greater than one other than vacuum. For air } \epsilon_r = 1.0006, \text{ for vacuum } \epsilon_r = 1.$$

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



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John Perry

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