

1. Electrostatics

1. Discuss the basic properties of electric charges.

Properties of electric charge :

1. Electric charge

2. Conservation of charge

3. Quantisation of charge

1. Electric Charge :

- Objects in the universe are made up of atoms.
- Atoms are made up of protons , neutrons and electrons.
- These particles have mass , an inherent property of particles.
- Electric charge is another intrinsic and fundamental property of particles.
- S I Unit of electric charge is Coulomb.

2. Conservation of Charge :

- Total electric charge in the universe is constant.
- Charge can neither be created nor be destroyed.
- Net change in charge will always be zero.
- Objects are electrically neutral before rubbing process happen.
- After rubbing simply transfers charges from one object to the others.

Example :

1. When a glass rod rubbed with silk cloth then negative charge transferred from glass to silk.
2. As a result , glass rod is positively charged and silk cloth is negatively charged.

3. Quantisation of charge :

The charge q on any object is equal to an integral multiple of fundamental unit of charge e .

$$q = ne$$

n is any integer ($0, \pm 1, \pm 2$) ; Charge of electron : $-1.6 \times 10^{-19} \text{ C}$

2. Explain in detail Coulomb's law and its various aspects .

Coulomb's law states that , electrostatic force is directly proportional to the product of the magnitude of the two point charges and inversely proportional to the square of the distance between the two charges.



$$\vec{F}_{12} = K \frac{q_1 q_2}{r^2} \hat{r}_{12}$$

1. The force on the charge q_2 exerted by the charge q_1 always lies along the line joining the two charges. $\hat{r}_{12}$ is a unit vector pointing from charge q_1 to q_2 . The force on the charge q_1 exerted q_2 is along $-\hat{r}_{12}$.

2. Value of proportionality constant K :

$$K = \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$$

$$\epsilon_0 = \frac{1}{4\pi K} = 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$$

3. The magnitude of the electrostatic force between two charges each of one coulomb and separated by a distance 1 m is calculated as follows :

$$|F| = \frac{9 \times 10^9 \times 1 \times 1}{1^2} = 9 \times 10^9 \text{ N}$$

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Padhraic Smyth



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