

ELECTROSTATICS

Electrostatics :→ It is the branch of electricity which deals with electric charge at rest. It is also known as static electricity or frictional electricity.

Frictional electricity :→ The electricity produced due to friction between two insulating bodies which are rubbed against each other is called frictional electricity.

Types of charge :→ There are mainly two types of charge

- i) Positive charge
- ii) Negative charge.

Charge :→ The total deficiency or excess of electrons in a body is called its charge or electric charge.

The deficiency of electrons produces '+ve' charge on a body. and excess of electrons produces '-ve' charge on a body. charge is scalar quantity.

S.I unit of charge is 'coulomb'. Its symbol is 'C'.

C.G.S unit of charge is 'stat coulomb'.

$$1 \text{ coulomb} = 3 \times 10^9 \text{ stat coulomb}$$

Properties of charge :→ Following are the properties of charge

i) Electric charge is of two kinds.

ii) Like electric charge repel and unlike electric charge attract each other.

iii) It is additive in nature.

iv) It is quantised i.e charge carried by body is equal to $q = \pm ne$, where $n = 1, 2, 3, 4, \dots$

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