

CURRENT ELECTRICITY

CLASS : 12th

U CH: 2nd

Introduction :→ The term current means some sort of motion. The motion of electric charges constitutes an electric current. The branch of Physics which deals with the electric charges in motion is called current electricity.

Electric Current :→ The flow of electric charge is called an electric current and it exists as long as there is an electrostatic potential difference.

Quantitatively, the electric current is defined as the rate of flow of electric charge through any cross section of the conductor.

It is denoted by I and is given by

$$I = \frac{\text{Total charge flowing}}{\text{Time taken}} = \frac{q}{t} \quad \text{--- (i)}$$

If the rate of flow of electric charge varies with time, then the electric current at any time or instantaneous current is given by

$$I = \frac{dq}{dt} \quad \text{--- (ii)}$$

Where 'dq' is the small amount of charge that flows through any section of a conductor in small time 'dt'.

Notes Class 12th Physics Chapter Current Electricity

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