

**Class XII: Physics**  
**Ch 3: Current Electricity**  
**Chapter Notes**

**Top Concepts**

1. Current through a given area of a conductor is the net charge passing per unit time through the area.
2. The current density vector  $\vec{J}$  gives current per unit area flowing through area ( $\Delta A$ ) when it is held normal to the direction of charge flow. Note that the direction of  $\vec{J}$  is in the direction of current flow.
3. Drift speed, which is the magnitude of this velocity, is enormously small as compared to the thermal speed, which is not a vector and is much larger.
4. When a conducting substance is brought under the influence of an electric field  $\vec{E}$ , free charges (e.g. free electrons in metals) move under the influence of this field in such a manner, that the current density  $\vec{J}$  due to their motion is proportional to the applied electric field.

$$\vec{J} = \sigma \vec{E}$$

where  $\sigma$  is a constant of proportionality called electrical conductivity.

This statement is one possible form of Ohm's law.

# Class Xii Physics Ch 3 Current Electricity Chapter Notes

**SA Adler**



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