

Chapter 12

CURRENT ELECTRICITY

Rheostat:

Variable resistance is a component used to regulate current without changing the source of voltage.

Resistivity (ρ):

It is defined as the resistance offered by a cube of a material of side 1m when current flows perpendicular to its opposite faces.

SI Unit: Ohm-metre (Ωm)

$$R = \frac{\rho l}{A}$$

(Or)

$$\rho = \frac{RA}{l}$$