

Lecture - 3

- Mobility = $\mu = \frac{|\vec{v}_d|}{E}$ m^2/Vs
- $\frac{\rho}{T} \rightarrow$ Temperature Dependence of Resistivity

$$\rho_T = \rho_0 [1 + \alpha(T - T_0)]$$

$\alpha \rightarrow$ Coefficient of resistivity

$\rho_0 \rightarrow$ Resistivity at temp. T_0

$\rho_T \rightarrow$ Resistivity at temp. T

- $\rho = \frac{1}{\sigma} = \frac{m}{ne^2\tau}$

$\sigma \rightarrow$ Conductivity