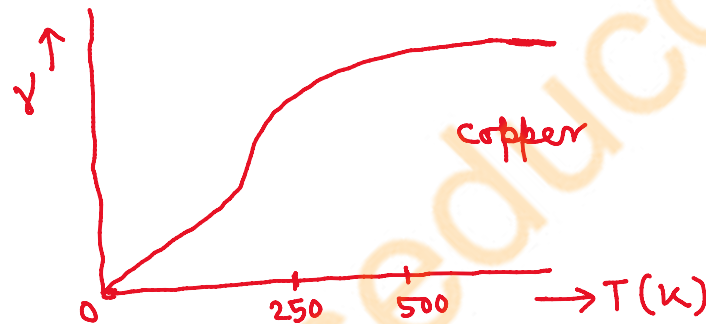


SI unit of $\gamma = K^{-1}$

by (6) $V - V_0 = \gamma V_0 \Delta T \Rightarrow V = V_0 + \gamma V_0 \Delta T$

$$V = V_0 (1 + \gamma \cdot \Delta T) \quad \text{--- (8)}$$

Note:



Relation Between α , β and γ :

(1) Relation between α and β :

Diagram of a square at T_0 with side length l_0 . The area is labeled "area at T_0 ".

$$A_0 = l_0^2 \quad \text{--- (1)}$$

At temp T

$$l = l_0 (1 + \alpha \Delta T) \quad \text{--- (2)}$$

$$A = A_0 (1 + \beta \cdot \Delta t) \quad \text{--- (3)}$$