

Semiconductor fabrication & Characterization

paper → 0.1

1. a. Derive an expression for the effective segregation co-efficient for single crystal growth using CZ Technique?

Solⁿ: The effective segregation co-efficient K_e is defined as ratio of C_s and the impurity concentration far away from the interface:

$$K_e = \frac{C_s}{C_\infty}$$

An Analogous equation for the stagnant layer of melt in the steady state is

$$\Rightarrow 0 = V \frac{dc}{dn} + D \frac{d^2c}{dn^2} \rightarrow (1)$$

Solution of the above equation

$$\Rightarrow C(x) = A_1 e^{-Vn/D} + A_2 \rightarrow (2)$$

first boundary condition is at $n=0$

$$C_L(0) = A_1 + A_2 \rightarrow (3)$$

Secondary Boundary Condition: Conservation of the total number of dopants at interface

$$D \left(\frac{dc}{dn} \right)_{n=0} + [C_L(0) - C_s] V = 0 \rightarrow (4)$$

Fabrication Question Paper L

Lauren Gardner



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