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		$T_i = 130^\circ\text{C}$ $\alpha = 1.3 \times 10^{-6}$ $k = 3 \text{ W/m}\cdot^\circ\text{C}$

NOTES

6-14

$$t = 120 \text{ s} \quad 2L = 0.03 \text{ m} \quad L = 0.015 \text{ m}$$

$$Z = \frac{\alpha t}{L^2} = \frac{(1.3 \times 10^{-6})(120)}{(0.015)^2} = 0.693$$

$$\frac{1}{\text{Bi}} = \frac{k}{hL}$$

↓ 0

$$\frac{T - 30}{130 - 30} = 0.25 \rightarrow T_{(120)} = 55^\circ\text{C}$$