

CONDUCTION

- * Fourier law of condⁿ: $q_{cond} = -KA \left(\frac{dT}{dx} \right)$ watt
- * Newton's law of cooling: $q_{conv} = hA(T_{\infty} - T_{\infty})$ watt
 $h \rightarrow$ conv. heat transfer $\left(\frac{W}{m^2 K} \right)$
- * Stefan-Boltzman law of radⁿ: $[E_b \propto T^4]$ T sink only
 $[E_b = \sigma T^4]$

Condⁿ Heat transfer:-

case(i) for slab:-



• Rate of HT th. slab $(q_x) = \frac{KA(T_1 - T_2)}{l}$ watt

• $\left[\frac{q}{A} = \frac{K(T_1 - T_2)}{l} \right] \frac{W}{m^2}$
 heat flux

case(ii) for composite slab:-



• $q_x = \frac{T_1 - T_3}{\frac{l_1}{k_1 A} + \frac{l_2}{k_2 A}}$ W (or) • $q_x = \frac{T_1 - T_2}{\left(\frac{l_1}{k_1 A} \right)}$
 • $q_x = \frac{T_2 - T_3}{\left(\frac{l_2}{k_2 A} \right)}$

Critical Radius of Insulation:-

- (i) cylinder $\Rightarrow r_c = \frac{k}{h}$ (ii) sphere $\Rightarrow r_c = \frac{2k}{h}$
 $k \rightarrow$ Th. conductivity of insulating material.

Generalised condⁿ eqn:-

① Cartesian co-ordinates:-

$$\left[\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} + \frac{\partial^2 T}{\partial z^2} + \frac{\dot{q}}{k} = \frac{1}{\alpha} \frac{\partial T}{\partial t} \right]$$

② Cylindrical co-ordinates:-

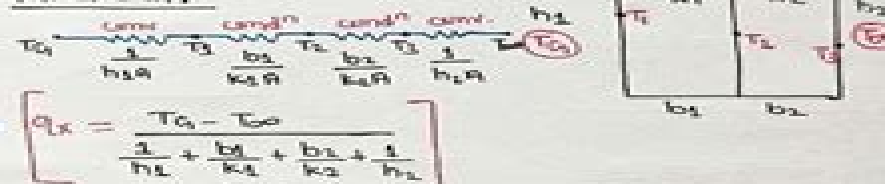
$$\left[\frac{\partial^2 T}{\partial r^2} + \frac{1}{r} \frac{\partial T}{\partial r} + \frac{1}{r^2} \frac{\partial^2 T}{\partial \phi^2} + \frac{\partial^2 T}{\partial z^2} + \frac{\dot{q}}{k} = \frac{1}{\alpha} \frac{\partial T}{\partial t} \right]$$

③ 1-D unsteady state eqn for sphere:-

$$\left[\frac{1}{r^2} \cdot \frac{d}{dr} \left(r^2 \frac{dT}{dr} \right) + \frac{\dot{q}}{k} = \frac{1}{\alpha} \frac{\partial T}{\partial t} \right]$$

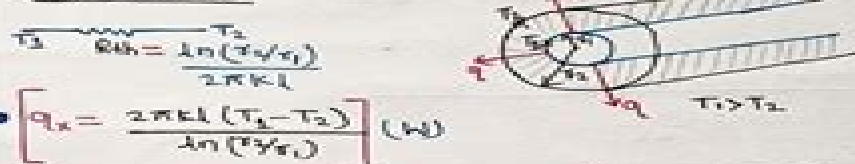
case(ii) condⁿ-convⁿ HT th. composite slab:-

Th. circuit:-



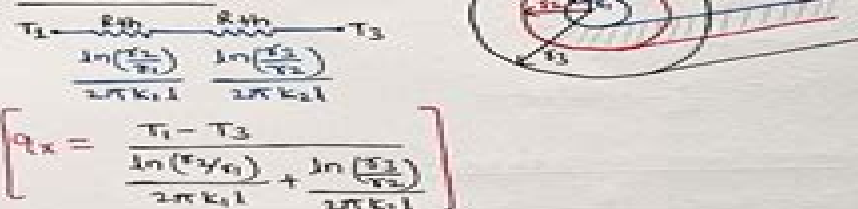
Radiation condⁿ HT th. hollow cylinder:-

Th. circuit:-

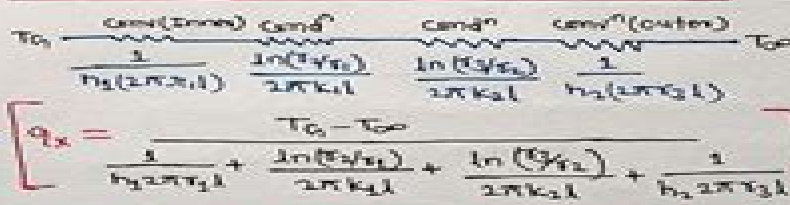


Composite cyl.:-

Th. circuit:-



Radial condⁿ-convⁿ th. composite cyl.:-



Radial condⁿ HT th. a hollow sphere:-

Thermal circuit:-



Heat And Mass Transfer Notes

Clifford Lane



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