

CONDUCTION

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

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

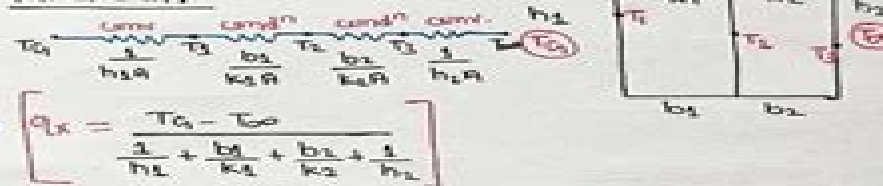
$$\left[\frac{\partial^2 T}{\partial r^2} + \frac{1}{r} \frac{\partial T}{\partial r} + \frac{1}{r^2} \frac{\partial^2 T}{\partial \phi^2} + \frac{\partial^2 T}{\partial z^2} + \frac{\dot{q}}{k} = \frac{1}{\alpha} \frac{\partial T}{\partial t} \right]$$

(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:-

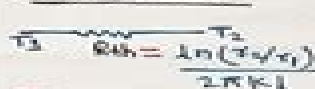
Th. circuit:-



• $q_x = \frac{T_{\infty} - T_{\infty}}{\frac{1}{h_1} + \frac{b_1}{k_1} + \frac{b_2}{k_2} + \frac{1}{h_2}}$

Radiation condⁿ HT th. hollow cylinder:-

Th. circuit:-



• $q_x = \frac{2\pi K l (T_1 - T_2)}{\ln(r_2/r_1)}$ (W)

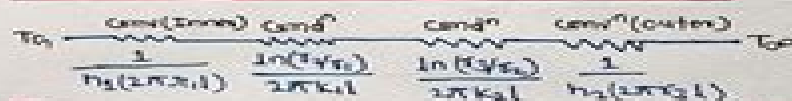
Composite cyl.:-

Th. circuit:-



• $q_x = \frac{T_1 - T_3}{\frac{\ln(r_2/r_1)}{2\pi K_1 l} + \frac{\ln(r_3/r_2)}{2\pi K_2 l}}$

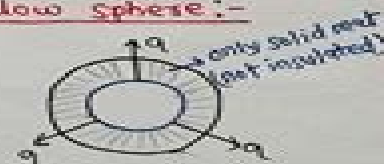
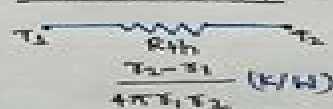
Radial condⁿ-convⁿ th. composite cyl.:-



• $q_x = \frac{T_{\infty} - T_{\infty}}{\frac{1}{h_1(2\pi r_1 l)} + \frac{\ln(r_2/r_1)}{2\pi K_1 l} + \frac{\ln(r_3/r_2)}{2\pi K_2 l} + \frac{1}{h_2(2\pi r_3 l)}}$

Radial condⁿ HT th. a hollow sphere:-

Thermal circuit:-



Heat And Mass Transfer Notes

S Ashworth



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Heat Transfer Notes Llewellyn Michael Kraus Boelter, 1965 A Textbook of Heat and Mass Transfer RK Rajput, Heat and Mass Transfer is a comprehensive textbook for the students of Mechanical Engineering and a must buy for the aspirants of different entrance examinations including GATE and UPSC Divided into 5 parts the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer by Convection and Radiation and Mass Transfer The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions

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