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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Chapter 3d : Heat transfer from extended surface

3.2 A general conduction analysis for an extended surfaces

Applying the conservation of energy

$$q_x = q_{x+dx} + dq_{conv}$$

Using,

$$q_x = -kA_c \frac{dT}{dx}$$
$$q_{x+dx} = q_x + \frac{dq_x}{dx} dx$$
$$dq_{conv} = h dA_s (T - T_\infty)$$

Then, the heat equation become

$$\frac{d^2 T}{dx^2} + \left(\frac{1}{A_c} \frac{dA_s}{dx} \right) \frac{dT}{dx} - \left(\frac{h}{k} \frac{dA_s}{A_c dx} \right) (T - T_\infty) = 0 \quad \text{Eq (3.6)}$$

General form of the energy equation for an extended surface

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Extended Surface Heat Transfer