

## 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,

$$q_x = -kA_c \frac{dT}{dx}$$

$$q_{x+dx} = q_x + \frac{dq_x}{dx} dx$$

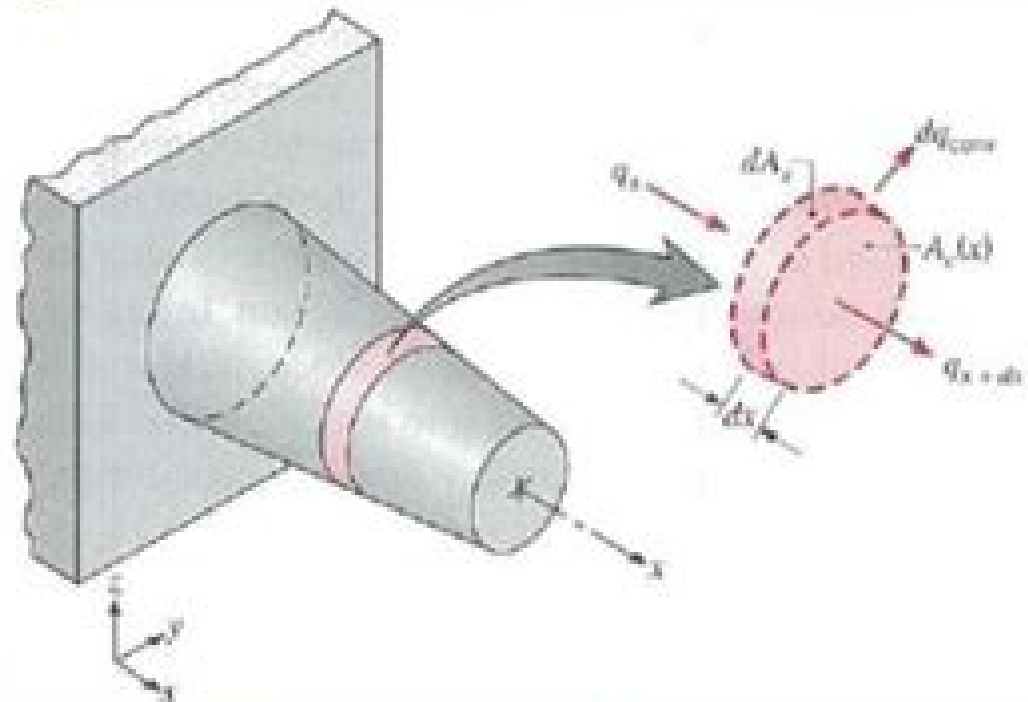
$$dq_{conv} = h dA_s (T - T_\infty)$$

Then, the heat equation become

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

Eq. (3.61)

General form of the energy equation for an extended surface



# Extended Surface Heat Transfer

**Donald F. Schnell**



## **Extended Surface Heat Transfer:**

## Enjoying the Melody of Phrase: An Emotional Symphony within **Extended Surface Heat Transfer**

In a global used by monitors and the ceaseless chatter of quick transmission, the melodic elegance and mental symphony produced by the published word often disappear in to the background, eclipsed by the relentless sound and interruptions that permeate our lives. But, nestled within the pages of **Extended Surface Heat Transfer** a stunning literary prize full of raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this captivating masterpiece conducts viewers on an emotional journey, well unraveling the hidden tunes and profound affect resonating within each carefully crafted phrase. Within the depths of the touching evaluation, we will discover the book is key harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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