

**Solution Manual for Principles of Heat
Transfer 8th Edition Kreith Manglik
1305387104 9781305387102**

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Chapter 4

PROBLEM 4.1

Show that in the limit $\Delta x \rightarrow 0$, the difference equation for one-dimensional steady conduction with heat generation, Equation (4.2), is equivalent to the differential equation, Equation (2.24).

GIVEN

- One dimensional steady conduction with heat generation

SHOW

(a) In the limit of small Δx , the difference equation is equivalent to the differential equation

SOLUTION

From Equation (4.2)

$$T_{i+1} - 2T_i + T_{i-1} = -\frac{\Delta x^2}{k} \dot{q}_{G,i}$$

By definition

$$T_{i-1} = T(x - \Delta x)$$

$$T_i = T(x)$$

$$T_{i+1} = T(x + \Delta x)$$

so we can rewrite Equation (4.2) as follows

$$\frac{T(x + \Delta x) - 2T(x) + T(x - \Delta x))}{\Delta x^2} = -\frac{\dot{q}_{G,x}}{k}$$

Now, in the limit $\Delta x \rightarrow 0$, from calculus, the left hand side of the above equation becomes $\frac{d^2T}{dx^2}$ so we have

$$k \frac{d^2T}{dx^2} = -\dot{q}_{G,x}$$

which is equivalent to Equation (2.24).

Solution Manual For Principles Of Heat Transfer

**Charles Benham, Mark Bohn, Yew Khoy
Chuah**



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