

## Finite Difference Approximation (cont.)

$$\left( \frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} \right)_{m,n} \approx \frac{T_{m+1,n} + T_{m-1,n} - 2T_{m,n}}{(\Delta x)^2} + \frac{T_{m,n+1} + T_{m,n-1} - 2T_{m,n}}{(\Delta y)^2}$$

To model the steady state, no generation heat equation:  $\nabla^2 T = 0$

This approximation can be simplified by specify  $\Delta x = \Delta y$

and the nodal equation can be obtained as

$$T_{m+1,n} + T_{m-1,n} + T_{m,n+1} + T_{m,n-1} - 4T_{m,n} = 0$$

This equation approximates the nodal temperature distribution based on the heat equation. This approximation is improved when the distance between the adjacent nodal points is decreased:

$$\text{Since } \lim(\Delta x \rightarrow 0) \frac{\Delta T}{\Delta x} = \frac{\partial T}{\partial x}, \lim(\Delta y \rightarrow 0) \frac{\Delta T}{\Delta y} = \frac{\partial T}{\partial y}$$

# Numerical Methods In Heat Transfer

**R Sandford**



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