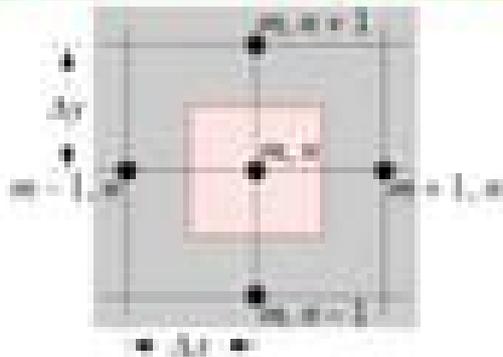


Finite Difference Equations



From the nodal network to the left, the heat equation can be written in finite difference form:

$$\frac{1}{\alpha} \frac{T_{m,p}^{p+1} - T_{m,p}^p}{\Delta t} = \frac{T_{m+1,p}^p + T_{m-1,p}^p - 2T_{m,p}^p}{(\Delta x)^2} + \frac{T_{m,p+1}^p + T_{m,p-1}^p - 2T_{m,p}^p}{(\Delta y)^2}$$

Assume $\Delta x = \Delta y$ and the discretized Fourier number $Fo = \frac{\alpha \Delta t}{(\Delta x)^2}$

$$T_{m,p}^{p+1} = Fo \left(T_{m+1,p}^p + T_{m-1,p}^p + T_{m,p+1}^p + T_{m,p-1}^p \right) + (1 - 4Fo) T_{m,p}^p$$

This is the **explicit**, finite difference equation for a 2-D, unsteady heat transfer equation.

The temperature at time $p+1$ is explicitly expressed as a function of neighboring temperatures at an earlier time p

Finite Difference Methods In Heat Transfer

CHARN-JUNG KIM



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methods for treating radiative heat transfer are developed in detail and the methods are demonstrated and clarified by solving example problems The examples are especially helpful for self study The treatment of spectral band properties of gases has been made current and the methods are described in detail and illustrated with examples The combination of radiation with conduction and or convection has been given more emphasis and has been merged with results for radiation alone that serve as a limiting case this increases practicality for energy transfer in translucent solids and fluids A comprehensive catalog of configuration factors on the CD that is included with each book provides over 290 factors in algebraic or graphical form Homework problems with answers are given in each chapter and a detailed and carefully worked solution manual is available for instructors

Applications of an Exponential Finite Difference Technique, 1988 *New Finite-Difference Technique for Solution of the Heat-Conduction Equation, Especially Near Surfaces with Convective Heat Transfer*, 1956 Finite difference methods have come into wide use for solving special problems including transient heat conduction Dusenberre has ably presented the possibilities of finite difference methods The success of most such methods depends on the existence of a certain degree of uniformity of behavior of the temperature over the finite intervals of both space and time selected for the computation process In some cases however this required uniformity constitutes a handicap since temperatures are changing so rapidly that inconveniently short time intervals have to be chosen This paper represents an effort to develop a finite difference method free from the foregoing defect

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activities and that conservation measures that negatively affect such activities are based on false economies The goal is to determine rational strategies for the design of new buildings and the retrofit of existing buildings to bring them up to modern standards of energy use The energy flows examined are both large scale heating systems and small scale choices among appliances Solar Heat Technologies Fundamentals and Applications Volume 4

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