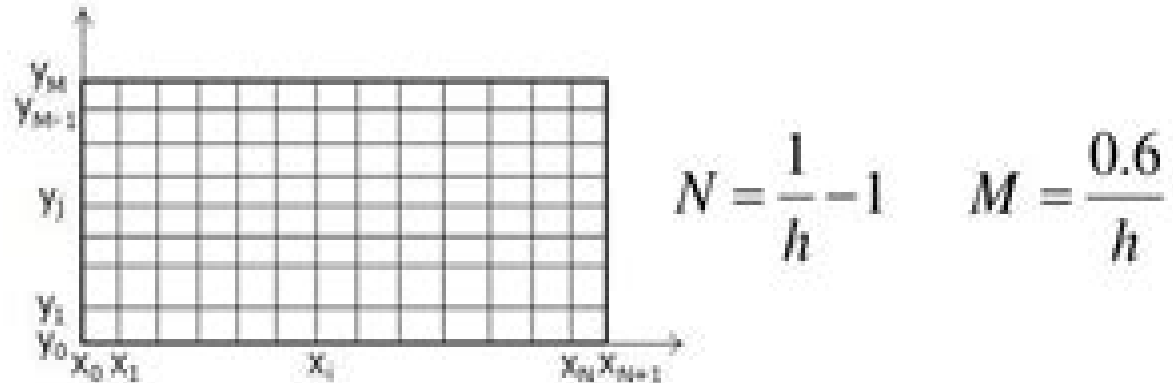


# MATLAB: Discretization

- DG: using same stepsize  $h$  in both directions



- DD: 2nd order Finite Difference Method

$$\Delta T = \frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} = 0$$

$$\begin{cases} \frac{\partial^2 T}{\partial x^2}(x_i, y_j) \approx \frac{T_{i+1,j} - 2T_{i,j} + T_{i-1,j}}{h^2} \\ \frac{\partial^2 T}{\partial y^2}(x_i, y_j) \approx \frac{T_{i,j+1} - 2T_{i,j} + T_{i,j-1}}{h^2} \end{cases}$$



# Matlab Discretization Manual

**Robert R. Redfield**



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