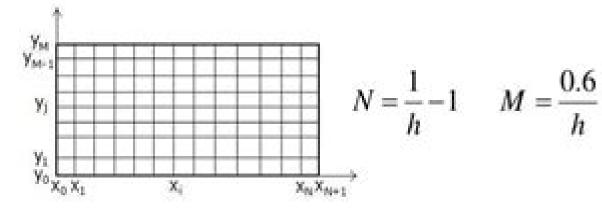
MATLAB: Discretization

DG: using same stepsize h in both directions





DD: 2nd order Finite Difference Method

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

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

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

Matlab Discretization Manual

Michael Brown

Matlab Discretization Manual:

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