

Finite Element Method

Assembling of All Elements Together

$$I(x, y) = \sum_{e=1}^N I_e(x, y)$$

Solve for the unknowns (a, b and c) and then substituting that result into

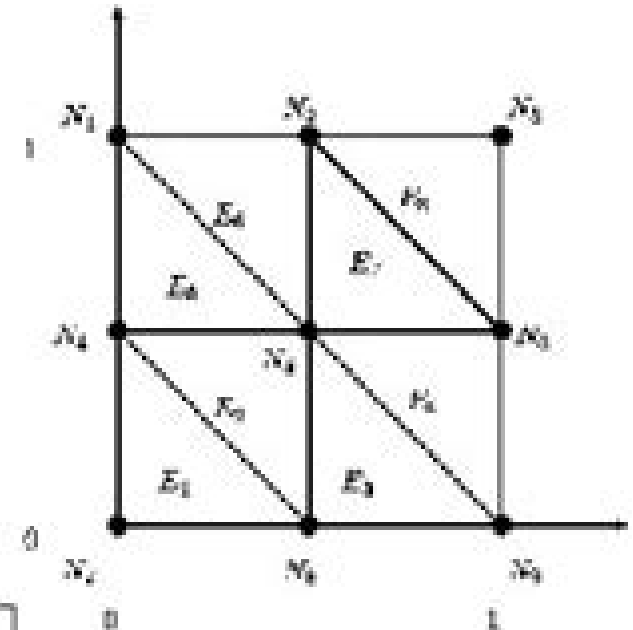
$$I(x, y) = \sum_{e=1}^N I_e(x, y) = \frac{1}{2} [V] [C] [V]$$

where

$$[V] = \begin{bmatrix} V_1 \\ V_2 \\ V_3 \\ \dots \\ V_N \end{bmatrix}$$

and

$$[C_e] = \begin{bmatrix} C_{11} & C_{12} & C_{13} & \dots & C_{1N} \\ C_{21} & C_{22} & \dots & \dots & \dots \\ C_{31} & \dots & \dots & \dots & \dots \\ \dots & \dots & \dots & \dots & \dots \\ C_{N1} & \dots & \dots & \dots & C_{NN} \end{bmatrix}$$



Global coefficient matrix



Methods Of Finite Mathematics

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