

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

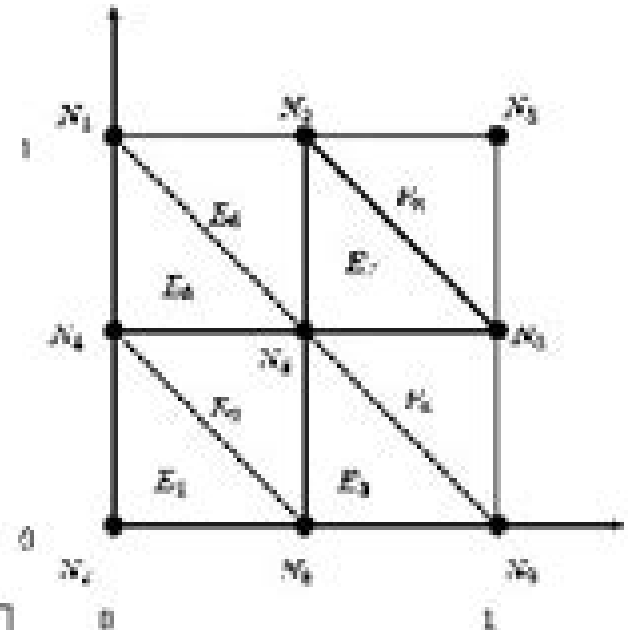
$$I(x, y) = \sum_{e=1}^N I_e(x, y) = \frac{1}{2} [V] [C] [V]$$

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

Hussin A.Rothana



Methods Of Finite Mathematics:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Methods Of Finite Mathematics**

In some sort of inundated with displays and the cacophony of instantaneous connection, the profound power and mental resonance of verbal art usually fade into obscurity, eclipsed by the constant onslaught of noise and distractions. However, situated within the musical pages of **Methods Of Finite Mathematics**, a captivating work of literary brilliance that pulses with raw emotions, lies an unforgettable trip waiting to be embarked upon. Composed by a virtuoso wordsmith, that enchanting opus guides viewers on a mental odyssey, softly revealing the latent potential and profound impact embedded within the elaborate web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect its interesting publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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