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Analysis The above stiffness matrix

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(system equations in matrix form) can be expanded to incorporate the two force components at each node and the two displacement components at each node.

$$F1X+1 \ 0 \ -1 \ 0 \ X1 \ F1Y0 \ 0 \ 0 \ 0 \ Y1$$

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Solutions Manual

- The term finite element was first coined by clough in 1960. In the early

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1960s, engineers used the method for approximate solutions of problems in stress analysis, fluid flow, heat transfer, and other areas. - The first book on the FEM by Zienkiewicz and Chung was published in 1967.

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