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NN = Number of Nodes; NE = Number of Elements; NM = Number of Different Materials NDIM = Number of Coordinates per Node (e.g., NDIM for 2-D or = 3 for 3-D): NEN = Number of Nodes per Element (e.g., NEN = 3 for 3-noded triangular element, or = 4 for a 4-noded quadrilateral)

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J. N. Reddy, An Introduction to Nonlinear Finite Element Analysis, Oxford University Press, Oxford, UK, 2004. The computer programs FEM1D and FEM2D can be readily modified to solve new types of field problems. The programs can be easily extended to finite element models formulated in an advanced course and/or in research.

An Introduction to The Finite Element Method

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Finite Element Method

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