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Introduction to Finite Element Method

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NN = Number of Nodes; NE = Number of Elements; NM = Number of Different Materials NDIM = Number ofCoordinales per Node (e.g.,NDIM Uor2 · D.or = 3for3.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 problems FEM1D and FEM2D can be readily modi fi ed to solve new types of fi eld problems. The programs can be easily extended to fi nite element models formulated in an advanced course and/or in research.

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Finite Element Method

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