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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.

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Introduction to Finite Element Analysis (FEA) or Finite Element Method (FEM) The Finite Element Analysis (FEA) is a numerical method for solving problems of engineering and mathematical physics. Useful for problems with complicated geometries, loadings, and material properties where analytical solutions can not be obtained.

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