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introduce Finite Elements for the
mechanical simulation of deformable
solids. In this introduction, use
simplifying assumptions to more easily
convey the main ideas: at initial time

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the object is undeformed, and the material coordinates exactly match the space coordinates.

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NN = Number of Nodes; NE = Number

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of Elements; NM = Number of
Different Materials NDIM = Number
of Coordinates per Node (e.g., NDIM
= 2 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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interpolation; Module 5: Additional
Abaqus capabilities

EL507 - Introduction to Finite Element
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J. N. Reddy, An Introduction to

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Nonlinear Finite Element Analysis,
Oxford University Press, Oxford, UK,
2004. The computer programs FEM1D
and FEM2D can be readily modified to
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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

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