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simplifying assumptions  
to more easily convey  
the main ideas: at initial  
time the object is

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Nodes; NE = Number  
of Elements; NM =  
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Materials NDIM =

Number of Coordinates  
per Node (e.g., NDIM

U or 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

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J. N. Reddy, An

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Element Analysis,

Oxford University Press,

Oxford, UK, 2004. The

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- The term finite element was first coined

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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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