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the space coordinates.

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*NN = Number of Nodes; NE =
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*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
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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

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introduction, use simplifying assumptions to more easily convey the main ideas: at initial time the object is undeformed, and the material coordinates exactly match the space coordinates.

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NN = Number of Nodes; NE = Number of Elements; NM = Number of Different Materials NDIM = Number of Coordinales per Node

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*(e.g., $N_{DIM} = 2$ 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
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