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NN = Number of Nodes; NE = Number of Elements; NM = Number of Different Materials NDIM = Number Page 16/77

ofCoordinales per Node (e.g..NDIM Uor2·D.or = 3for3.D): NEN = Number of Nodes per Element (e.g., NEN " 3 for 3-noded trianguJar element, or = 4 for a 4-noded quadrilateral)

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This textbook presents finite element methods using exclusively one-Page 63/77

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problems. The reader easily understands the assumptions and limitations of mechanical modeling as well as the underlying physics without struggling with complex mathematics. But although the description is easy it remains scientifically correct. The approach using only one-dimensional Page 65/77

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