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Introduction to Finite Element Analysis (FEA) or Finite

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element, $d = N u$ where N is the matrix of interpolation functions termed shape functions and u is the vector of unknown nodal displacements. (u is equivalent to p in the basic equation for finite element analysis.) The strains within the element can be expressed in terms of the element nodal displacements as $\epsilon = B u$ where B is the strain ...

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APPLIED FINITE ELEMENT ANALYSIS. APPLIED FINITE ELEMENT ANALYSIS Second Edition LARRY J. SEGERLIND Agricultural Engineering Department Michigan State University JOHN WILEY AND SONS New York • Chichester • Brisbane . Toronto . Singapore To my parents T. J. and Bessie and my grade school teacher Alice Brunger

Applied Finite Element Analysis - Larry J. Segerlind

An introductory textbook for senior/graduate courses in finite element analysis taught in all engineering departments. Covers the basic concepts of the finite element method and their application to the analysis of plane structures and two-dimensional continuum problems in heat transfer, irrotational fluid flow, and elasticity.

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