

## First Course Finite Element Method

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The modern development of the finite element method began in the 1940s in the field of structural engineering with the work by Hrennikoff [1] in 1941 and McHenry [2] in 1943, who used a lattice of line (one-dimensional) elements (bars and beams) for the solution of stresses in continuous solids.

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The following are the general steps of the finite element method. Step 1 Divide the body into an equivalent system of finite elements with associated nodes and choose the most appropriate element type. Step 2 Choose a displacement function within each element. Step 3 Relate the stresses to the strains through the stress/strain law—generally

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K) -1 {F} = {d} Using the adjoint method to find [K -1] C11 = k2 + k3, C21 = (- 1)3 (- k2) C12 = (- 1)1 + 2 (- k2) = k2, C22 = k1 + k2

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