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$K \begin{Bmatrix} \delta_1 \\ \delta_2 \end{Bmatrix} = \begin{Bmatrix} F_1 \\ F_2 \end{Bmatrix}$  Using the adjoint method to find  $[K \begin{Bmatrix} \delta_1 \\ \delta_2 \end{Bmatrix}]$   $C_{11} = k_2 + k_3$ .  $C_{21} = (\frac{1}{2})^3 (\frac{1}{2} k_2)$   $C_{12} = (\frac{1}{2})^1 + 2 (\frac{1}{2} k_2) = k_2$ .  $C_{22} = k_1 + k_2$

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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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