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$K]^{-1} \{F\} = \{d\}$  Using the adjoint method to find  $[K^{-1}] C_{11} = k_2 + k_3. C_{21} = (-1)k_3 (-k_2) C_{12} = (-1)k_1 + 2(-k_2) = k_2. C_{22} = k_1 + k_2$

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Finite element method - Wikipedia

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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