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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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$[K]^{-1} \{F\} = \{d\}$ Using the adjoint method to find $[K^{-1}]_{C11} = k_2 + k_3$. $C21 = (-1)3(-k_2)$ $C12 = (-1)1 + 2(-k_2) = k_2$. $C22 = k_1 + k_2$

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space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

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