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$[K]^{-1} \{F\} = \{d\}$

Using the adjoint  
method to find  $[K$   
 $-1]_{C11} = k_2 + k_3$ .



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$$C_{21} = (-1)^3 (-k_2)$$

$$C_{12} = (-1)^1 + 2(-k_2) = k_2. \quad C_{22} = k_1 + k_2$$

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for solving partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

**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-

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dimensional) elements (bars and beams) for the solution of stresses in continuous solids.

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