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The finite element method is a numerical method that can be used for the accurate solution of complex engineering problems. The method was first developed in 1956 for the analysis of aircraft structural problems. Thereafter, within a decade, the potential-ties of the method for the solution of different types of applied science and engineering

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$KJ^{-1}\{F\} = \{d\}$ 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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The finite element method is used to find solution of a complicated problem by replacing it by a simpler one. In finding the solution, the actual problem is replaced by a simpler one; therefore,, one is able to find only an approximate solution rather than the exact solution.

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