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$[K]^{-1} \{F\} = \{d\}$ Using the adjoint method to find $[K^{-1}]$ $C_{11} = k_2 + k_3$. $C_{21} = (-1)3 (-k_2)$ $C_{12} = (-1)1 + 2(-k_2) = k_2$. $C_{22} = k_1 + k_2$

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An accessible introduction to the finite element method for solving numeric problems, this volume offers the keys to an important technique in computational mathematics. Suitable for advanced undergraduate and graduate courses, it outlines clear connections with applications and considers numerous examples from a variety of science- and engineering-related specialties. This text encompasses all varieties of the basic linear partial differential equations, including elliptic, parabolic and hyperbolic problems, as well as stationary and time-dependent problems. Additional topics include finite element methods for integral equations, an introduction to nonlinear problems, and considerations of unique developments of finite element techniques related to parabolic problems, including methods for automatic time step control. The relevant mathematics are expressed in non-technical terms whenever possible, in the interests of keeping the treatment accessible

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