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1 Derivation of the Method In order to derive the fundamental concepts of FEM we will start by looking at an extremely simple ODE and approximate it using FEM.

1.1 The Model Problem The model problem is:  $u'' + u = x$   $0 < x < 1$   $u(0) = 0$   $u(1) = 0$  (1)

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solution inside the domain. This sounds like a strange idea, but it is a very powerful tool for finding solutions.

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While Turner's application for the direct stiffness finite element method was vibration calculations to facilitate flutter and dynamic analysis, Ray Clough, from the University of California at Berkley, partnering with Boeing, realized that this method could be applied to stress analysis. Many others contributed to the development and popularization of today's modern finite element method ...