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problems are also called field problems. The field is the domain of interest and most often represents a physical structure.

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where  $u_1 = 0$ ,  $u_3 = 0$  as nodes 1

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and 3 are fixed. Using Equations

(1) and (3) of (A) 2000 1800.

Solving  $u_2 = 11.86$  mm,  $u_4 =$

7.63 mm 2.7.  $f_1x = C$ ,  $f_2x = -C$   $f$

$= -k = -k(u_2 - u_1)$   $f_1x \dots$

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approximation of the real solution to the PDEs. The finite element method (FEM) is used to compute such approximations. Take, for example, a function  $u$  that may be the dependent variable in a PDE (i.e., temperature, electric potential, pressure, etc.)

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equations Thus eq. (10) yields  
 $t+At_i(i-1)AU(i) = t+At_{\sim} \_ t+AtF(i-1)$



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