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Lesson, Prof Hamid  
Bahai, Session 1

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Elements Solution

where  $u_1 = 0$ ,  $u_3 =$

0 as nodes 1 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.  $f_1 x =$

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$C, f_2 x = - C f = - k$   
 $= - k (u_2 - u_1) f_1 x$   
...

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Five typical areas  
where the finite  
element is applied  
are as follows. (1)  
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analysis (2) Heat  
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(3) Fluid flow  
analysis (4)  
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distribution analysis

(5) Biomechanical  
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2 Choose a  
displacement  
function within each  
element.

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graduate students without the usual prerequisites (i.e. structural analysis).

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