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cylindrical  
storage tank of  
diameter  $D$   
contains a

liquid at depth  
(or head)

$h(x, t)$ . Liquid  
is supplied to  
the tank at a  
rate of  $q_i$   
( $m^3/day$ ) and  
drained at a  
rate of  $q_0$   
( $m^3/day$ ). Use

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the principle of  
conservation of  
mass to arrive  
at the governing  
equation of the  
flow problem.

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(FEM), or finite  
element analysis  
(FEA), is a

computational  
technique used  
to obtain  
approximate  
solutions of  
boundary value  
problems in  
engineering.  
Boundary value  
problems are

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also called  
field problems.

The field is the  
domain of

interest and

most often

represents a

physical

structure.

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The term finite element was first coined by Clough in 1960.

In the early 1960s, engineers used the method for approximate solutions of problems in stress analysis, fluid flow, heat transfer, and

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The first book  
on the FEM by  
Zienkiewicz and  
Chung was  
published in  
1967.

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General form of  
the finite  
element method  
One chooses a

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grid for  $\Omega$   
{\displaystyle  
\Omega } . In  
the preceding  
treatment, the  
grid consisted  
of triangles,  
but one... Then,  
one chooses  
basis functions.  
In our  
discussion, we  
used piecewise  
linear basis

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functions, but  
it is also  
common to...

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method is a  
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application, and

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dimensions in the global coordinate system with the equivalent

dimensions in the natural coordinate system.;  $2 \frac{dX}{L} \frac{L}{dX} J \frac{dr}{dr} = =$   
 $= - - = 1 \ 1 \ 1 \ 1$   
 $L \ AE \ K$  From the equations above, the stiffness

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matrix of a bar  
is obtained as)

$J^{\hat{J}} \dots$

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