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cylindrical storage tank of diameter  $D$

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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 the principle of

conservation of mass to arrive at the

governing equation of the flow problem.

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The finite element method (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 also called field problems. The field is the domain of interest and most often represents a physical structure.

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

## *Finite Element Method*

General form of the finite element method

One chooses a grid for  $\Omega$ . In the preceding treatment, the

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grid consisted of triangles, but one... Then, one chooses basis functions. In our discussion, we used piecewise linear basis functions, but it is also common to...

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The finite element method is a computational scheme to solve field problems in engineering and science. The technique has very wide application, and has been used on problems involving stress analysis, fluid mechanics, heat

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transfer, diffusion, vibrations, electrical  
and magnetic fields, etc.

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system with the equivalent dimensions in  
the natural coordinate system.;  $2 \frac{dX}{L} \frac{dX}{dr}$   
 $J_{dr} J_{dr} = = = ? ? = 1 \ 1 \ 1 \ 1 \ L \ AE \ K$  From  
the equations above, the stiffness matrix of  
a bar is obtained as)  $J^{\wedge} J \dots$

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