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Problem 1.2: A 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 the principle of conservation of mass to arrive at the governing equation of the flow problem.

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Brief History - The term finite element was first coined by Clough in 1960. In the early 1960s, engineers used the

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Method for approximate solutions of problems in stress analysis, fluid flow, heat transfer, 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 Ω $\{\displaystyle \Omega\}$. In the preceding treatment, the grid consisted of triangles, but one... Then, one chooses basis functions. In our discussion, we used piecewise linear basis functions, but it is also common to...

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Jacobian Matrix: Connection between the element dimensions

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

Ing Stephan Lippert Introduction to the Finite Element Bar ...

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