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

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Introduction 1.1 What is the finite element method The finite element method (FEM) is a numerical technique for solving problems which are described by partial differential equations or can be formulated as functional minimization. A domain of

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