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2 AN INTRODUCTION TO THE FINITE ELEMENT METHOD

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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Contents 1 Introduction to the Finite Element Method 1 1.1

Historical perspective: the origins of the finite element method 1 1.2 Introductory ...

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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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Brief History - 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 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 . 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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28 Jacobian Matrix: Connection between the element dimensions in the global coordinate system with the equivalent dimensions in the natural coordinate system.; 2
 $dX L dX Jdr J dr = = = - - = 1 1 1 1 L AE K$ From the equations above, the stiffness matrix of a bar is obtained as)
 $J \hat{ J ...$

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