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Five advantages of the finite element method are the ability to (1) Model irregularly shaped bodies quite easily (2) Handle general load conditions without difficulty (3) Model bodies composed of several different materials because element equations are evaluated individually (4) Handle unlimited numbers and kinds of boundary conditions (5) Vary the size of the elements to make it possible to use small elements where necessary

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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 (m3/day) and drained at a rate of q 0 (m3/day). Use the principle of conservation of mass to arrive at the governing equation of the flow problem.

### An Introduction to The Finite Element Method

A finite element is a small body or unit interconnected to other units to model a larger structure or system. 1.2. Discretization means dividing the body (system) into an equivalent system of finite elements with associated nodes and elements. 1.3. The modern development of the finite element method began in 1941 with the work of

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The extended finite element method (XFEM) is a numerical technique based on the generalized finite element method (GFEM) and the partition of unity method (PUM). It extends the classical finite element method by enriching the solution space for solutions to differential equations with discontinuous functions.

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