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partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

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governing equation of the flow problem.
Solution: The conservation of mass
requires time rate of change in mass =
mass inflow - mass out flow The above
equation for the problem at hand
becomes $d/dt (\rho Ah) = \rho q_i - \rho q_o$.

An Introduction to The Finite Element Method

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Chapter 2 Formulation of FEM for One-Dimensional Problems

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Finite element approximation of initial boundary value problems. Energy dissipation, conservation and stability.

Analysis of finite element methods for evolution problems. Reading List 1. S. Brenner & R. Scott, The Mathematical Theory of Finite Element Methods.

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The finite element method gives an approximate solution to the mathematical model equations. The difference between the solution to the numerical equations and the exact solution to the mathematical model

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equations is the error: $e = u - u_h$.

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Dr. Chandrupatla has broad research interests, which include finite element analysis, design, optimization, and manufacturing engineering. He has published widely in these areas and serves as a consultant to industry.

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