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J. N. Reddy (1993), An Introduction to the Finite Element Method, McGraw-Hill. This book is referred to a number of times in one of the texts. O. C. Zienkiewicz and R. L. Taylor (2000), The Finite Element Method: Volume 2 Solid Mechanics, Butterworth-Heinemann.

Introduction to finite elements - Wikiversity
The word 'finite' is used to describe the limited, or finite, number of degrees of freedom used to model the behaviour of each element. The elements are assumed to be connected to one another, but only at interconnected joints, known as nodes . It is important to note that the elements are notionally small regions,...

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An Introduction to The Finite Element Method
Erik G. Thompson is the author of Introduction to the Finite Element Method: Theory, Programming and Applications, published by Wiley.

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Detailed Explanation of the Finite Element Method (FEM)
The finite element method (FEM), or finite element analysis (FEA), is a computational technique used to obtain approximate solutions of boundary value problems in engineering. Boundary value problems are also called field problems.

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An Introduction to the Finite Element Method The description of the laws of physics for space and time-dependent problems are usually expressed in terms of partial differential equations (PDEs). For the vast majority of geometries and problems, these PDEs cannot be solved with analytical methods.

Introduction To The Finite Element
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. O (m3/day).

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and mathematically biased introduction to several aspects of the Finite Element Method. This is not however a course on the Analysis of the method. It is just a demonstration of how it works, written as applied mathematicians usually write it.

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