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The finite element method is a numerical method that can be used for the accurate solution of complex engineering problems. Although the origins of the method can be traced to several centuries ago, the method as currently used was originally presented by Turner, Clough, Martin, and Topp in 1956 in the context of the analysis of aircraft structures.

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Topics include 1-D, 2-D, axisymmetric, and 3-D elements, isoparametric element formulation, convergence, treatment of

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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

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CE 526 Finite Element Methods in Structural Engineering ...

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- Engineering problems are approached using mathematical models (Approximations) of the physical system.
 - The solution is found by solving the mathematical equations describing the system and the constraints.
 - Finite Element Analysis is an effective discretization procedure to numerically solve engineering problems.
 - Powerful computer tools are available to perform FEA.

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The finite element method is a numerical method that can be used for the accurate solution of complex engineering problems. The method was first developed in 1956 for the analysis of aircraft structural problems.

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The Finite Element

The name finite element was coined, for the first time, by Clough in 1960 [1.42]. Although the finite element method was originally developed based mostly on intuition and physical argument, the method was recognized as a form of the classic Rayleigh-Ritz method in the early 1960s.

The finite element method in engineering | Rao, Singiresu ...

1960: The name "finite element" was coined by structural engineer Ray Clough of the University of California By 1963 the mathematical validity of FE was recognized and the method was expanded from its structural beginnings to include heat transfer, groundwater flow, magnetic fields, and other areas.

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