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Question1: What is the finite element method (FEM)? Question2: What is the history of the FEM? Question3: What is

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the Method of Weighted Residuals, i.e., Galerkin's Method? Question4: Why should one use finite elements?

Question5: Can the FEM handle a wide range of problems, i.e., solve general PDEs?

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Most practitioners of the finite element method now employ Galerkin's method to establish the approximations to the governing equations. Question 4. Why Should One Use Finite Elements? Answer : The versatility of the FEM, along with its rich mathematical formulation and robustness makes it an ideal numerical method for a wide range of problems.

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A finite element analysis always involves many approximations: the geometry is approximated in the mesh, interpolation is performed within the elements, parts can be assumed rigid (or not included at all), the behavior may be assumed to be



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static, etc.

## **4 Questions to ask when doing Finite Element Analysis**

MAE 456 FINITE ELEMENT ANALYSIS  
EXAM 1 Practice Questions 10 15. In Question 10, what is the stress at the middle of element 1 (i.e., at 0.5 m from the top)? 16. Plot the stress of both

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elements as a function of the distance from the top. 17. In the above questions, will the answers be the exact answers? If your answer is no,

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## **ME6603 Finite Element Analysis Syllabus Notes Question ...**

The extended finite element method (XFEM) is a numerical technique based

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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.

**Finite element method - Wikipedia**

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Generally interview starts with a simple series of questions like 1. What do you understand by term Finite Element Analysis or Finite Element Method? 2. What are the steps in FEA? 3. Which type of elements are used in FEA? 4. Which type of element...

**What are the interview questions on**



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## **finite element ...**

In finite element method (FEM) complex structure is subdivided into small parts (finite elements, FE) where solution is approximated. The result of the modelling is usually stress and displacement distributions in whole structure. To solve a problem using the FEM the following steps are made: 1.

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Discuss the various steps involved in the finite element analysis of a one dimensional heat transfer problem with reference to a straight uniform fin. (10 Marks)(-) < b. Derive the element matrices, using Galerkin for heat

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conduction in one dimensional element with heat generation  $Q$ . (10 Marks)-NoZ 7  
a.

## **Modelling and finite element analysis: Question Papers**

1) What is meant by finite element analysis? Finite element method is a numerical method for solving problems

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of engineering mathematical physics. In the finite element method, instead of solving the problem for the entire body in one operation, we formulate the equations for each finite element and combine them to obtain the solution of the ...

**ME 1401 - FINITE ELEMENT**

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Nov,Dec2014, May2014,Finite Element  
Analysis Nov,Dec2013,Finite element  
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Analysis Nov,Dec2012,Finite Element  
Analysis Nov,Dec2009,Finite Element

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Analysis Ap,May2010

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- 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,

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and other areas. - The first book on the FEM by Zienkiewicz and Chung was published in 1967.

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