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Question 1. What Is The Finite Element Method (fem)? Answer : The FEM is a novel numerical method used to solve ordinary and partial differential equations. The method is based on the integration of the terms in the equation to be solved, in lieu of point discretization schemes like the finite difference method.

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2) What is meant by finite element? A small unit having definite shape of geometry and nodes is called finite element. 3) State the methods of engineering analysis. There are three methods of engineering analysis. They are: 1. Experimental methods. 2. Analytical methods. 3. Numerical methods or approximate methods. 4) Give examples for the finite element. 1.

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Answered February 9, 2016 · Author has 126 answers and 379.8K answer views. In Short , it is a numerical method to find approximate solutions for ODE's and PDE's. FEM could be applied for lots of fields like structural mechanics, fluid mechanics, electromagnetics, heat transfer etc. For any system, we tend to start with the objective laws (mass, momentum and energy conservation) and derive the governing equations of that system which would be a boundary values problem / initial value problem.

What is the purpose of objective of finite element ...
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Objective. Structural analysis of a rocker arm. Modeling. Model the following part using NX (Unit: Inch) Finite Element Analysis Material properties: Young's modulus: 3.0 × 10 7 psi; Poisson's ratio: 0.29; Mass density: 7.35 × 10-4 slug/in3 (unit conversion may be needed) Mesh the rocker arm using the following attributes as four ...

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3. (5 points) sketch the linear flnite element basis functions `1(x) and `3(x) that represent the nodes x1 = 1 and x3 = 1:5, respectively. 4. (5 points) Use the linear shape functions N1 1(x) and N1 2(x) on the flrst element [1;1:25] to writeout the expressionsfor entries k1 ij ofthe local elementmatrix of theflrst element

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