

Stasa Finite Element Solution

Overview e175baae11 Intro e175baae11 Summary e175baae11 Further topics e175baae11 Subtitles and closed captions e175baae11 Assembly e175baae11 Mesh e175baae11 Search filters e175baae11 Weak Form Methods e175baae11 Playback e175baae11 Lect01: Finite Element Method - Lect01: Finite Element Method 12 minutes, 36 seconds - What is **finite element**, analysis, What is **finite element method**,. e175baae11 Lect35:Finite Element Method - Lect35:Finite Element Method 16 minutes - Types of Elasticity Problems, Plane Stress Problems, Plane Strain Problems Axisymmetric Problems. e175baae11 Lect31: Finite Element Method - Lect31: Finite Element Method 10 minutes, 11 seconds - Isoparametric **Elements**, (Definition, Parent **Elements**,, Mapped **Elements**,) e175baae11 Finite Element e175baae11 Finite Element Method - Finite Element Method 32 minutes - This video explains how Partial Differential Equations (PDEs) can be solved numerically with the **Finite Element Method**,. For more ... e175baae11 Introduction e175baae11 Spherical Videos e175baae11 Motivation e175baae11 Galerkin Method e175baae11 Linear system e175baae11 Credits e175baae11 Keyboard shortcuts e175baae11 Summary e175baae11 Understanding the Finite Element Method - Understanding the Finite Element Method

18 minutes - The bundle with CuriosityStream is no longer available - sign up directly for Nebula with this link to get the 40% discount!

Solution Intro

Poisson's equation

Lecture 6a Finite Elements Methods - Lecture 6a Finite Elements Methods 10 minutes, 44 seconds - An introduction to **finite elements**, methods for elliptic equations and global error of the methods are presented.

Mesh in 2D

Numerical quadrature

Summary

Equivalent formulations

Degree of Freedom

Finite Element Method explained in 3 levels of difficulty - Finite Element Method explained in 3 levels of difficulty 40 minutes - The **finite element method**, is difficult to understand when studying all of its concepts at once. Therefore, I explain the **finite element**, ...

Solution in 2D

Lect32: Finite Element Method - Lect32: Finite Element Method 12 minutes, 47 seconds - Types of Isoparametric **Elements**, Isoparametric **elements**, Sub-parametric **elements**, Super-parametric **elements**,.

Conclusion

Basis functions

FEM-Basics: 04 Assembly - FEM-Basics: 04 Assembly 5 minutes, 27 seconds - Learn using the AI Tutor <http://Tutor.AcademyOfKnowledge.org> The basics of **finite element**, analysis How to assemble element ...

Static Stress Analysis

Stiffness Matrix

Level 2

Evaluate integrals

Basis functions in 2D

General

Element Stiffness Matrix

Master element

Element Shapes

Global Stiffness Matrix

Level 1

Level 3

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