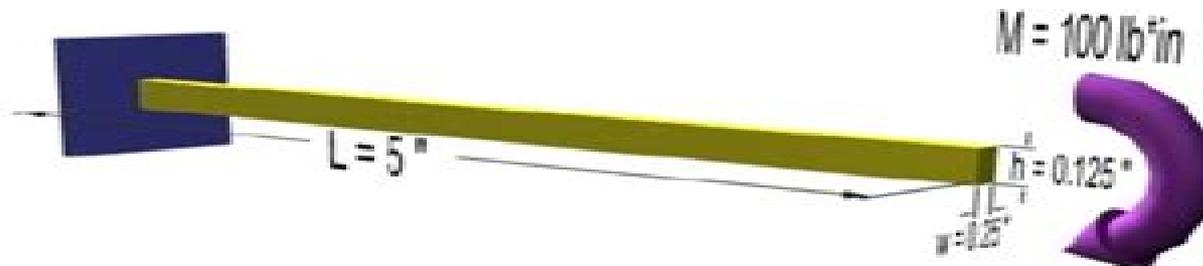


# NonLinear Analysis of a Cantilever Beam

## Introduction

This tutorial was created using ANSYS 7.0 The purpose of this tutorial is to outline the steps required to do a simple nonlinear analysis of the beam shown below.



There are several causes for nonlinear behaviour such as **Changing Status** (ex. [contact elements](#)), **Material Nonlinearities** and **Geometric Nonlinearities** (change in response due to large deformations). This tutorial will deal specifically with Geometric Nonlinearities.

To solve this problem, the load will added incrementally. After each increment, the stiffness matrix will be adjusted before increasing the load.

The solution will be compared to the equivalent solution using a linear response.

## Preprocessing: Defining the Problem

### 1. Give example a Title

Utility Menu > File > Change Title ...

### 2. Create Keypoints

Preprocessor > Modeling > Create > Keypoints > In Active CS

We are going to define 2 keypoints (the beam vertices) for this structure to create a beam with a length of 5 inches:

Keypoint	Coordinates (x,y)
1	(0,0)
2	(5,0)

# Nonlinear Analysis Of A Cantilever Beam

**Yijin Wang**



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Laganà, Youngsong Mun, David Taniar, 2008-06-24 The two volume set LNCS 5072 and 5073 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2008 held in Perugia Italy in June July 2008 The two volumes contain papers presenting a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes computational methods algorithms and scientific applications high performance technical computing and networks advanced and emerging applications geometric modelling graphics and visualization as well as information systems and information technologies Moreover submissions from more than 20 workshops and technical sessions in the areas such as embedded systems geographical analysis computational geometry computational geomatics computer graphics virtual reality computer modeling computer algebra mobile communications wireless networks computational forensics data storage information security web learning software engineering computational intelligence digital security biometrics molecular structures material design ubiquitous computing symbolic computations web systems and intelligence and e education contribute to this publication

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## **Table of Contents Nonlinear Analysis Of A Cantilever Beam**

1. Understanding the eBook Nonlinear Analysis Of A Cantilever Beam
  - The Rise of Digital Reading Nonlinear Analysis Of A Cantilever Beam
  - Advantages of eBooks Over Traditional Books
2. Identifying Nonlinear Analysis Of A Cantilever Beam
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nonlinear Analysis Of A Cantilever Beam
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nonlinear Analysis Of A Cantilever Beam
  - Personalized Recommendations
  - Nonlinear Analysis Of A Cantilever Beam User Reviews and Ratings
  - Nonlinear Analysis Of A Cantilever Beam and Bestseller Lists
5. Accessing Nonlinear Analysis Of A Cantilever Beam Free and Paid eBooks
  - Nonlinear Analysis Of A Cantilever Beam Public Domain eBooks
  - Nonlinear Analysis Of A Cantilever Beam eBook Subscription Services
  - Nonlinear Analysis Of A Cantilever Beam Budget-Friendly Options
6. Navigating Nonlinear Analysis Of A Cantilever Beam eBook Formats

- ePub, PDF, MOBI, and More
  - Nonlinear Analysis Of A Cantilever Beam Compatibility with Devices
  - Nonlinear Analysis Of A Cantilever Beam Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Nonlinear Analysis Of A Cantilever Beam
    - Highlighting and Note-Taking Nonlinear Analysis Of A Cantilever Beam
    - Interactive Elements Nonlinear Analysis Of A Cantilever Beam
  8. Staying Engaged with Nonlinear Analysis Of A Cantilever Beam
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Nonlinear Analysis Of A Cantilever Beam
  9. Balancing eBooks and Physical Books Nonlinear Analysis Of A Cantilever Beam
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Nonlinear Analysis Of A Cantilever Beam
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Nonlinear Analysis Of A Cantilever Beam
    - Setting Reading Goals Nonlinear Analysis Of A Cantilever Beam
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Nonlinear Analysis Of A Cantilever Beam
    - Fact-Checking eBook Content of Nonlinear Analysis Of A Cantilever Beam
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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