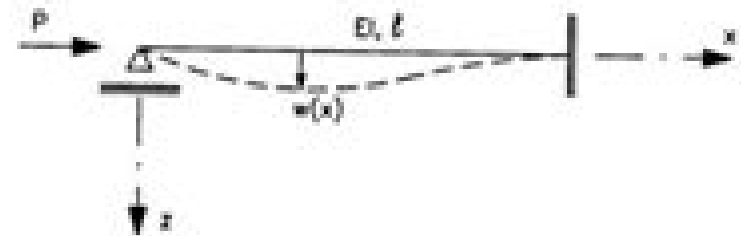


# Galerkin method - Example



- Clamped simply supported column
- Form function
- Residual
- Galerkin equation
- Critical Load

$$\bar{w}(x) = q_1 \psi_1(x) = q_1 \left( x - \frac{3x^3}{l^2} + \frac{2x^4}{l^3} \right)$$

$$L(\bar{w}, P) = EI w_{,xxx} + P w_{,x} = 0$$

$$r(x, P) = L(\bar{w}, P) = q_1 \left[ \frac{48EI}{l^3} - P \left( \frac{18x}{l^2} - \frac{24x^2}{l^3} \right) \right]$$

$$\int_0^l r(x, P) \psi_1(x) dx = q_1 \left[ \frac{3EI}{5l} - P \frac{l}{35} \right] = 0$$

$$P = 21 \frac{EI}{l^2} \approx 1.04 P_{cr}$$

# Finite Element Galerkin Methods For Differential Equations

**Xiaobing Feng, Ohannes  
Karakashian, Yulong Xing**



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## **Table of Contents Finite Element Galerkin Methods For Differential Equations**

1. Understanding the eBook Finite Element Galerkin Methods For Differential Equations
  - The Rise of Digital Reading Finite Element Galerkin Methods For Differential Equations
  - Advantages of eBooks Over Traditional Books
2. Identifying Finite Element Galerkin Methods For Differential Equations
  - 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 Finite Element Galerkin Methods For Differential Equations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Finite Element Galerkin Methods For Differential Equations
  - Personalized Recommendations
  - Finite Element Galerkin Methods For Differential Equations User Reviews and Ratings
  - Finite Element Galerkin Methods For Differential Equations and Bestseller Lists
5. Accessing Finite Element Galerkin Methods For Differential Equations Free and Paid eBooks
  - Finite Element Galerkin Methods For Differential Equations Public Domain eBooks
  - Finite Element Galerkin Methods For Differential Equations eBook Subscription Services
  - Finite Element Galerkin Methods For Differential Equations Budget-Friendly Options

6. Navigating Finite Element Galerkin Methods For Differential Equations eBook Formats
  - ePub, PDF, MOBI, and More
  - Finite Element Galerkin Methods For Differential Equations Compatibility with Devices
  - Finite Element Galerkin Methods For Differential Equations Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Finite Element Galerkin Methods For Differential Equations
  - Highlighting and Note-Taking Finite Element Galerkin Methods For Differential Equations
  - Interactive Elements Finite Element Galerkin Methods For Differential Equations
8. Staying Engaged with Finite Element Galerkin Methods For Differential Equations
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Finite Element Galerkin Methods For Differential Equations
9. Balancing eBooks and Physical Books Finite Element Galerkin Methods For Differential Equations
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Finite Element Galerkin Methods For Differential Equations
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Finite Element Galerkin Methods For Differential Equations
  - Setting Reading Goals Finite Element Galerkin Methods For Differential Equations
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Finite Element Galerkin Methods For Differential Equations
  - Fact-Checking eBook Content of Finite Element Galerkin Methods For Differential Equations
  - 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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