(b) Consider a uniform cross section bar, as shown in fig 14(b) of length L made up of material whose young's modulus and density is given by E and ρ. Estimate the natural frequencies of axial vibration of the bar using both consistent and lumped mass matrices.



Fig. 14 b

 (a) Derive a finite element equation for one dimensional heat conduction with free end convection.

Or

(b) (i) In the finite element analysis of a two dimensional flow using triangular elements, the velocity components u and v are assumed to vary linearly within an element(e) as

$$\begin{split} u\left(x,y\right) &= \alpha_{1}U_{i}^{(e)} + \alpha_{2}U_{j}^{(e)} + \alpha_{1}U_{k}^{(e)} \\ v\left(x,y\right) &= \alpha_{1}V_{i}^{(e)} + \alpha_{2}V_{j}^{(e)} + \alpha_{2}V_{k}^{(e)} \end{split}$$

where  $(U_i^{(e)}, V_i^{(e)})$  denote the values of (u, v) at node i. Find the relationship between  $(U_i^{(e)}, V_i^{(e)}...V_k^{(e)})$  which is to be satisfied for the flow to be incompressible. (8)

(ii) Explain the potential function formulation of finite element equations for ideal flow problems. (8)

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#### **Table of Contents Fitting And Machining Theory Nquestion Papers**

- 1. Understanding the eBook Fitting And Machining Theory Nquestion Papers
  - The Rise of Digital Reading Fitting And Machining Theory Nquestion Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Fitting And Machining Theory Nquestion Papers
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Fitting And Machining Theory Nguestion Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Fitting And Machining Theory Nquestion Papers
  - Personalized Recommendations
  - Fitting And Machining Theory Nquestion Papers User Reviews and Ratings

- Fitting And Machining Theory Nquestion Papers and Bestseller Lists
- 5. Accessing Fitting And Machining Theory Nquestion Papers Free and Paid eBooks
  - Fitting And Machining Theory Nquestion Papers Public Domain eBooks
  - Fitting And Machining Theory Nguestion Papers eBook Subscription Services
  - Fitting And Machining Theory Nquestion Papers Budget-Friendly Options
- 6. Navigating Fitting And Machining Theory Nquestion Papers eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Fitting And Machining Theory Nquestion Papers Compatibility with Devices
  - Fitting And Machining Theory Nguestion Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fitting And Machining Theory Nquestion Papers
  - Highlighting and Note-Taking Fitting And Machining Theory Nquestion Papers
  - Interactive Elements Fitting And Machining Theory Nquestion Papers
- 8. Staying Engaged with Fitting And Machining Theory Nquestion Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fitting And Machining Theory Nguestion Papers
- 9. Balancing eBooks and Physical Books Fitting And Machining Theory Nguestion Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fitting And Machining Theory Nquestion Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Fitting And Machining Theory Nquestion Papers
  - Setting Reading Goals Fitting And Machining Theory Nquestion Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fitting And Machining Theory Nquestion Papers
  - Fact-Checking eBook Content of Fitting And Machining Theory Nquestion Papers
  - 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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