(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 N2 Fitting And Machining Theory Memo

- 1. Understanding the eBook N2 Fitting And Machining Theory Memo
 - The Rise of Digital Reading N2 Fitting And Machining Theory Memo
 - Advantages of eBooks Over Traditional Books
- 2. Identifying N2 Fitting And Machining Theory Memo
 - 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 N2 Fitting And Machining Theory Memo
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from N2 Fitting And Machining Theory Memo
 - Personalized Recommendations
 - N2 Fitting And Machining Theory Memo User Reviews and Ratings
 - N2 Fitting And Machining Theory Memo and Bestseller Lists

- 5. Accessing N2 Fitting And Machining Theory Memo Free and Paid eBooks
 - N2 Fitting And Machining Theory Memo Public Domain eBooks
 - N2 Fitting And Machining Theory Memo eBook Subscription Services
 - N2 Fitting And Machining Theory Memo Budget-Friendly Options
- 6. Navigating N2 Fitting And Machining Theory Memo eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - N2 Fitting And Machining Theory Memo Compatibility with Devices
 - N2 Fitting And Machining Theory Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N2 Fitting And Machining Theory Memo
 - Highlighting and Note-Taking N2 Fitting And Machining Theory Memo
 - Interactive Elements N2 Fitting And Machining Theory Memo
- 8. Staying Engaged with N2 Fitting And Machining Theory Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N2 Fitting And Machining Theory Memo
- 9. Balancing eBooks and Physical Books N2 Fitting And Machining Theory Memo
 - Benefits of a Digital Library
 - ∘ Creating a Diverse Reading Collection N2 Fitting And Machining Theory Memo
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine N2 Fitting And Machining Theory Memo
 - Setting Reading Goals N2 Fitting And Machining Theory Memo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of N2 Fitting And Machining Theory Memo
 - Fact-Checking eBook Content of N2 Fitting And Machining Theory Memo
 - 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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