

- (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)

15. (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

$$u(x, y) = a_1 U_i^{(e)} + a_2 U_j^{(e)} + a_3 U_k^{(e)}$$

$$v(x, y) = a_1 V_i^{(e)} + a_2 V_j^{(e)} + a_3 V_k^{(e)}$$

where $(U_i^{(e)}, V_i^{(e)})$ denote the values of (u, v) at node i . Find the relationship between $(U_i^{(e)}, V_i^{(e)}, \dots, V_k^{(e)})$ 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 N2 2013 Question Paper

1. Understanding the eBook Fitting And Machining Theory N2 2013 Question Paper
 - The Rise of Digital Reading Fitting And Machining Theory N2 2013 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Fitting And Machining Theory N2 2013 Question Paper
 - 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 Fitting And Machining Theory N2 2013 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fitting And Machining Theory N2 2013 Question Paper
 - Personalized Recommendations
 - Fitting And Machining Theory N2 2013 Question Paper User Reviews and Ratings

- Fitting And Machining Theory N2 2013 Question Paper and Bestseller Lists
- 5. Accessing Fitting And Machining Theory N2 2013 Question Paper Free and Paid eBooks
 - Fitting And Machining Theory N2 2013 Question Paper Public Domain eBooks
 - Fitting And Machining Theory N2 2013 Question Paper eBook Subscription Services
 - Fitting And Machining Theory N2 2013 Question Paper Budget-Friendly Options
- 6. Navigating Fitting And Machining Theory N2 2013 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Fitting And Machining Theory N2 2013 Question Paper Compatibility with Devices
 - Fitting And Machining Theory N2 2013 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fitting And Machining Theory N2 2013 Question Paper
 - Highlighting and Note-Taking Fitting And Machining Theory N2 2013 Question Paper
 - Interactive Elements Fitting And Machining Theory N2 2013 Question Paper
- 8. Staying Engaged with Fitting And Machining Theory N2 2013 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fitting And Machining Theory N2 2013 Question Paper
- 9. Balancing eBooks and Physical Books Fitting And Machining Theory N2 2013 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fitting And Machining Theory N2 2013 Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fitting And Machining Theory N2 2013 Question Paper
 - Setting Reading Goals Fitting And Machining Theory N2 2013 Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fitting And Machining Theory N2 2013 Question Paper
 - Fact-Checking eBook Content of Fitting And Machining Theory N2 2013 Question Paper
 - 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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