(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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**Daniel F McAuley** 

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