

- (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  $\rho$ . 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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