

### Problem 5.4

Given a one-dimensional elasticity problem as shown in Figure 5.20. The bar is constrained at both ends (A and C). Its cross-sectional area is constant ( $A = 0.1 \text{ m}^2$ ) on segment AB and varies linearly  $A = 0.05(x - 1)\text{m}^2$  on BC. The Young's modulus is  $E = 2 \times 10^7 \text{ Pa}$ . A distributed load  $b = 10 \text{ N m}^{-1}$  is applied along the left portion of the bar AB and a point force  $P = 150 \text{ N}$  acts at point B. The geometry, material properties, loads and boundary conditions are given in Figure 5.20a. Use a three-node element on AB ( $n_{en} = 3$ ) and a two-node element on BC ( $n_{en} = 2$ ) as shown in Figure 20b. The dimensions in Figure 5.20 are in meters.

- Construct the element body force matrices and assemble them to obtain the global force matrix.
- Construct the element stiffness matrices and assemble them to obtain the global stiffness matrix.
- Find and sketch the finite element displacements.
- Find and sketch the finite element stresses.

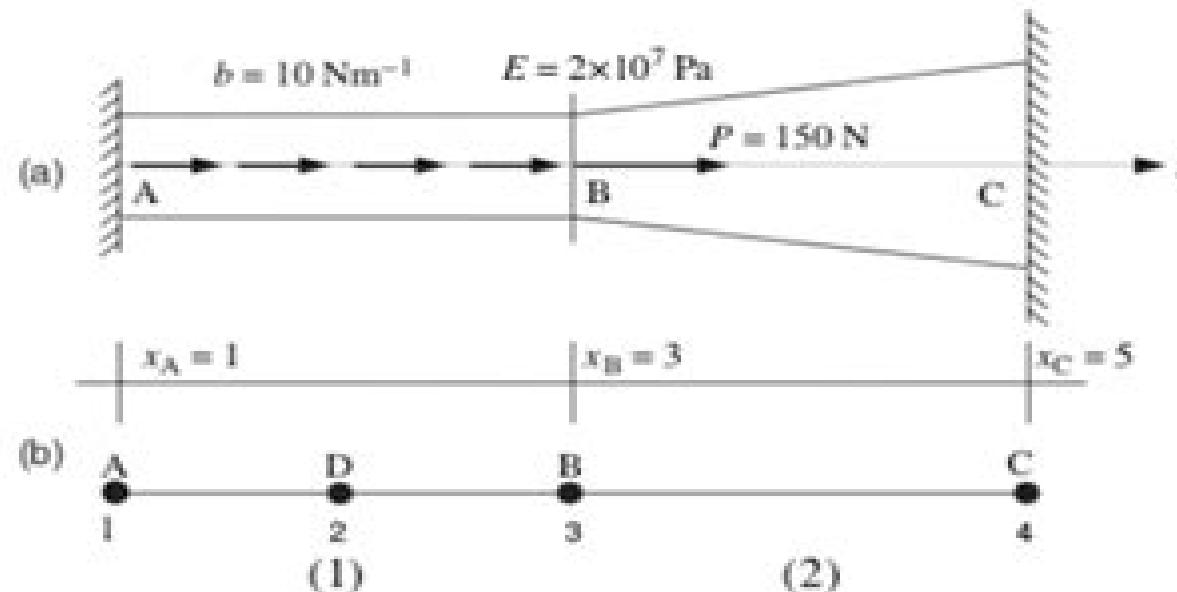


Figure 5.20 (a) Geometry, material properties, loads and boundary conditions for a bar with a variable cross-sectional area (b) the finite element model.

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**Mark Steyvers**

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