

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 ($n_{em}=3$) and a two-node element on BC ($n_{em}=2$) 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.

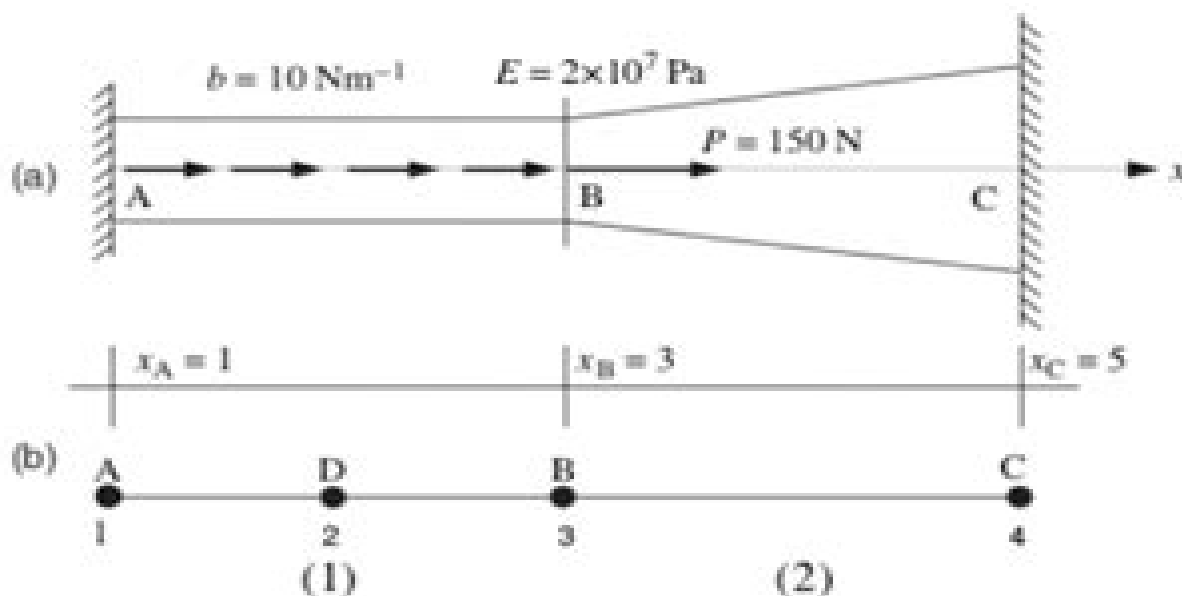


Figure 5.20 (a) Geometry, material properties, loads and boundary conditions for a bar with a variable cross-sectional area (b) the finite element model.

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