

(I) Answer the following three questions for Fig. 1. (25 points)

- (1) Obtain the relationship between displacement δ_{FV} of point F in the loading direction and elongation of elastic bar FH, λ_{FH} .
- (2) Obtain the displacement δ_{FV} of point F in the loading direction.

(II) Answer the following two questions for Fig. 2. (25 points)

- (1) Draw the BMD (Bending Moment Diagram) of part OA.
- (2) Obtain the displacement δ_{CV} of point C in the loading direction.

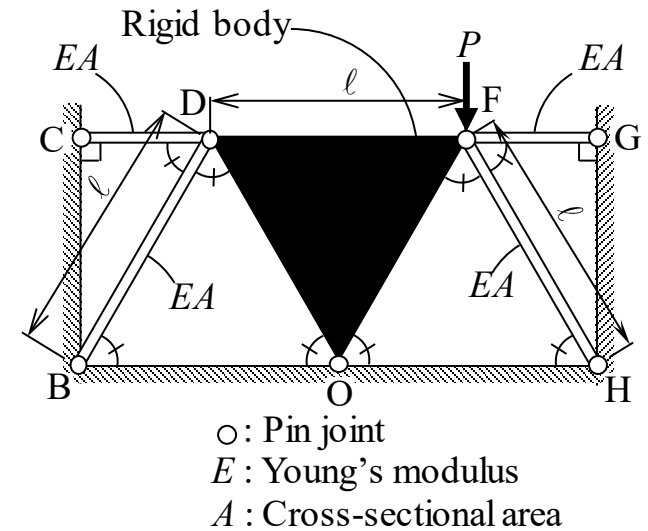


Fig. 1

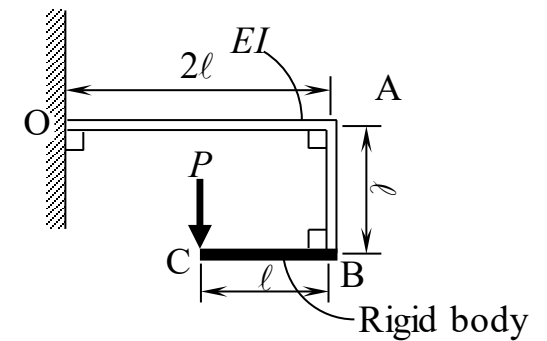


Fig. 2