

Mechanics of Materials (Group A, B) [09:00~10:30]

Examinee's number _____

Score _____

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

(1) Write the equation for the balance of moment at Point O.

The axial forces of elastic bars BD, CF, and BG are defined as Q , R , and S .

(2) Obtain the axial forces Q , R , and S .

(3) Obtain the displacement of Point G in the loading direction.

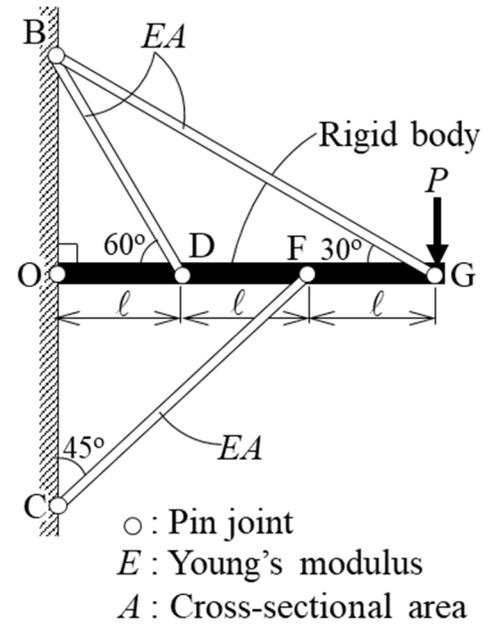


Fig. 1

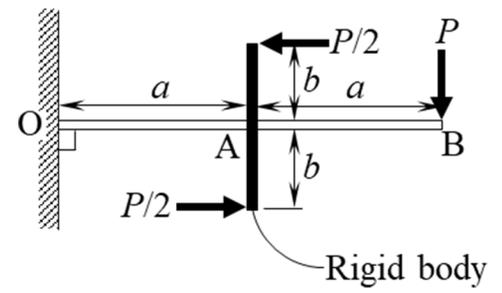
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II Answer the following two questions for Fig. 2. (25 Points)

- (1) Draw the BMD (Bending Moment Diagram) of OAB.
- (2) Obtain the displacement of Point B in the loading direction.



E : Young's modulus
 I : Moment of inertia

Fig. 2