

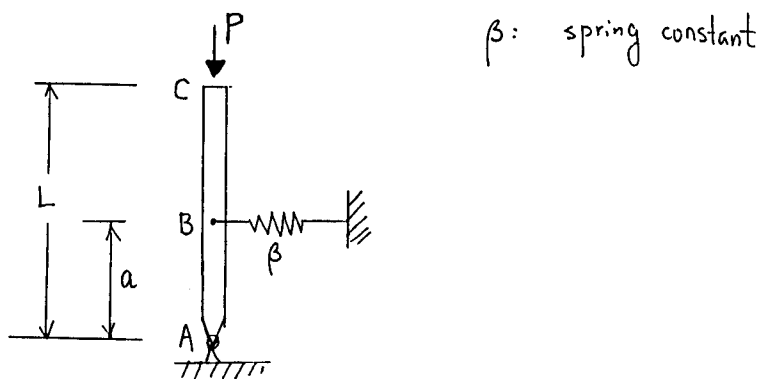
(Figure 4)

4. (20%) A beam is of rectangular cross section shown in Figure 4.

- Draw the shear force diagram
- Draw the bending moment diagram
- Calculate the maximum normal stress in the beam.
- Compute the deflection at point C

5. (20%)

Determine the critical load P_{cr} for the rigid bar-spring system shown in Figure 5.



(Figure 5.)