

Question 1 (20 Marks)

Determine the reactions and draw the shear and bending moment diagrams for the beam shown in Figure (1) for the loads on the beam and a support settlement of 25 mm at support C. Use the slope deflection method.

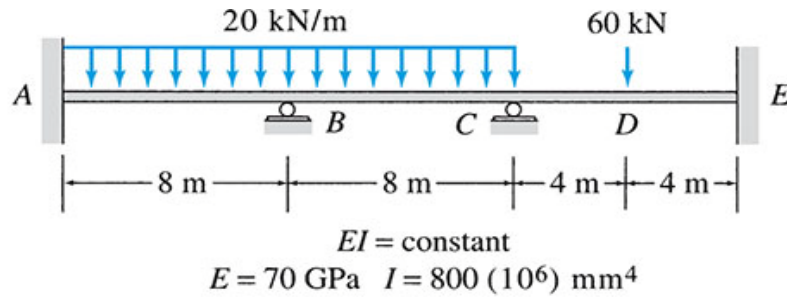


Figure (1)

Question 2 (20 Marks)

Determine the member end moments and reactions for the frame shown in Figure (2). Use the slope deflection method.

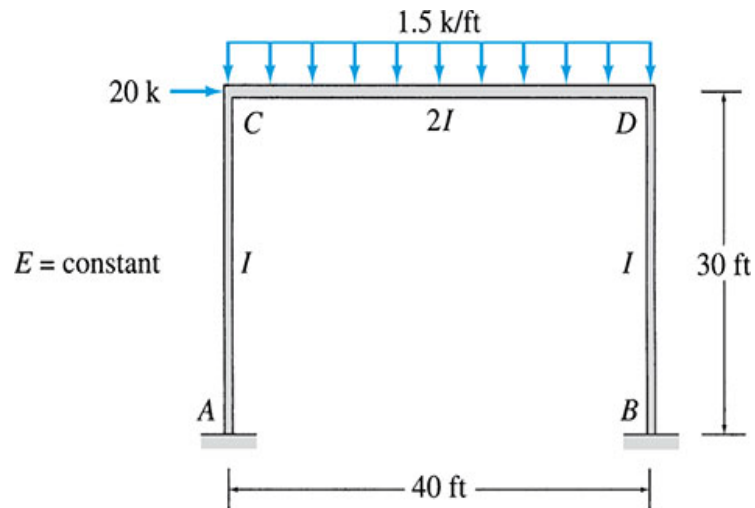


Figure (2)