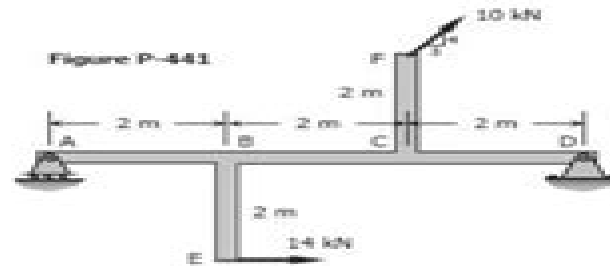
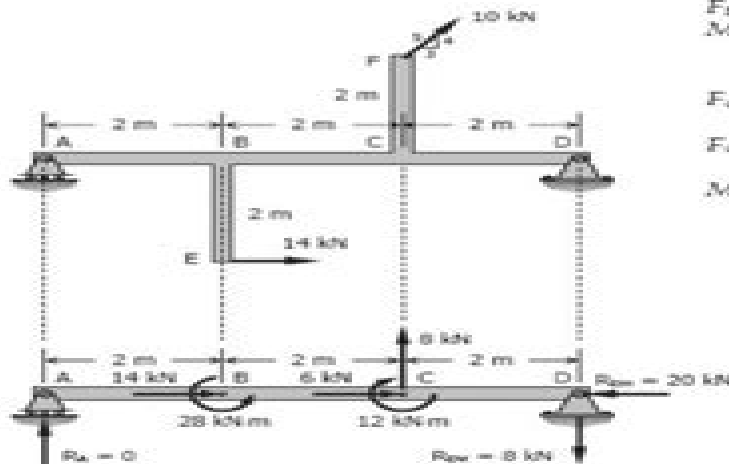


Problem 441

A beam ABCD is supported by a roller at A and a hinge at D. It is subjected to the loads shown in Fig. P-441, which act at the ends of the vertical members BE and CF. These vertical members are rigidly attached to the beam at B and C. (Draw shear and moment diagrams for the beam ABCD only.)



Solution 441



$$F_{BE} = 14 \text{ kN to the right}$$

$$M_B = 14(2)$$

$$= 28 \text{ kN-m counterclockwise}$$

$$F_{CF} = 3/5 (10)$$

$$= 6 \text{ kN to the right}$$

$$F_{CV} = 4/5 (10)$$

$$= 8 \text{ kN upward}$$

$$M_C = F_{CF}(2) = 6(2)$$

$$= 12 \text{ kN-m clockwise}$$

$$\Sigma M_D = 0$$

$$6R_A + 12 + 8(2) = 28$$

$$R_A = 0$$

$$\Sigma M_A = 0$$

$$6R_{DV} + 12 = 28 + 8(4)$$

$$R_{DV} = 8 \text{ kN}$$

$$\Sigma F_H = 0$$

$$R_{DH} = 14 + 6$$

$$= 20 \text{ kN}$$

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Bruce Reinhart



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