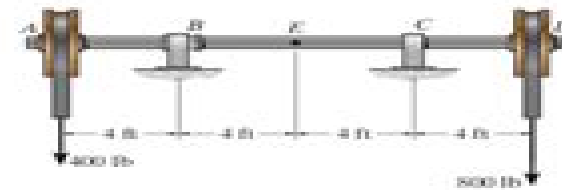


1-1. The shaft is supported by a smooth thrust bearing at B and a journal bearing at C . Determine the resultant internal loadings acting on the cross section at E .



Support Reactions: We will only need to compute C_y by writing the moment equation of equilibrium about B with reference to the free-body diagram of the entire shaft, Fig. a .

$$C + \Sigma M_B = 0; \quad C_y(8) + 400(4) - 800(12) = 0 \quad C_y = 1000 \text{ lb}$$

Internal Loadings: Using the result for C_y , section DE of the shaft will be considered. Referring to the free-body diagram, Fig. b ,

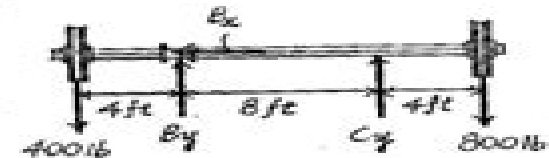
$$\rightarrow \Sigma F_x = 0; \quad N_E = 0 \quad \text{Ans.}$$

$$+\uparrow \Sigma F_y = 0; \quad V_E + 1000 - 800 = 0 \quad V_E = -200 \text{ lb} \quad \text{Ans.}$$

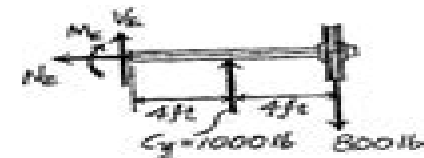
$$C + \Sigma M_E = 0; \quad 1000(4) - 800(8) - M_E = 0$$

$$M_E = -2400 \text{ lb} \cdot \text{ft} = -2.40 \text{ kip} \cdot \text{ft} \quad \text{Ans.}$$

The negative signs indicates that V_E and M_E act in the opposite sense to that shown on the free-body diagram.



(a)



(b)

Ans:
 $N_E = 0, V_E = -200 \text{ lb}, M_E = -2.40 \text{ kip} \cdot \text{ft}$

Mechanics Of Materials 9th Solutions

Andrew Pytel, Jaan Kiusalaas



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