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so many fake sites. this is the first one which worked! Many thanks

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 need to compute C_x by writing the moment equation of equilibrium about B with reference to the free-body diagram of the entire shaft, Fig. a.

$$\zeta + \sum M_B = 0; \quad C_x(2h) + 800(h) - 800(2h) = 0 \quad C_x = 1000 \text{ lb}$$

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

$$\begin{aligned} \rightarrow + \sum F_x = 0; \quad N_E &= 0 \quad \text{Ans.} \\ \uparrow + \sum F_y = 0; \quad V_E + 1000 - 800 = 0 \quad V_E &= -200 \text{ lb} \quad \text{Ans.} \\ \zeta + \sum M_E = 0; \quad 800(h) - 800(h) - M_E &= 0 \\ M_E &= -200(h) = -2.0(4 \text{ kip}\cdot\text{ft}) \quad \text{Ans.} \end{aligned}$$

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

Ans. $N_E = 0, V_E = -200 \text{ lb}, M_E = -2.0 \text{ kip}\cdot\text{ft}$

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