

EXAMPLE 3.2

Determine the resultant internal loadings acting on the cross section at C of the machine shaft shown in Fig. 3-5a. The shaft is supported by journal bearings at A and B , which only exert vertical forces on the shaft.

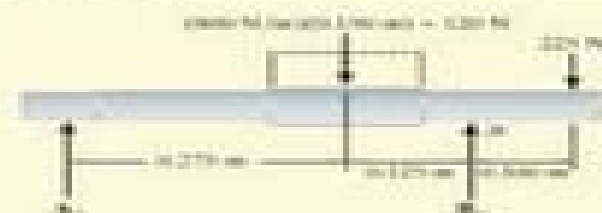
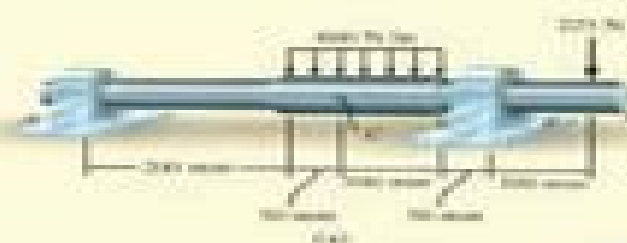


Fig. 3-5

SOLUTION

We will solve this problem using segment AC of the shaft.

Support Reactions. The free-body diagram of the entire shaft is shown in Fig. 3-5b. Since segment AC is to be considered, only the reaction at A has to be determined. Why?

$$\uparrow + \Sigma M_A = 0; -A_y(0.600 \text{ m}) + 120 \text{ N}(0.325 \text{ m}) - 225 \text{ N}(0.100 \text{ m}) = 0$$

$$A_y = -18.75 \text{ N}$$

The negative sign indicates that A_y acts in the opposite sense to that shown on the free-body diagram.

Free-Body Diagram. The free-body diagram of segment AC is shown in Fig. 3-5c.

Equations of Equilibrium.

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

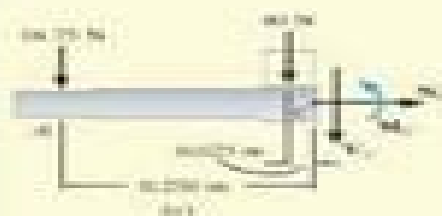
$$+\uparrow \Sigma F_y = 0; \quad -18.75 \text{ N} - 40 \text{ N} - V_C = 0$$

$$V_C = -58.8 \text{ N} \quad \text{Ans.}$$

$$\circlearrowleft + \Sigma M_C = 0; \quad M_C + 40 \text{ N}(0.25 \text{ m}) + 18.75 \text{ N}(0.250 \text{ m}) = 0$$

$$M_C = -5.69 \text{ N} \cdot \text{m} \quad \text{Ans.}$$

NOTE: The negative signs for V_C and M_C indicate they act in the opposite directions on the free-body diagram. As an exercise, calculate the reaction at B and try to obtain the same results using segment CB of the shaft.



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Russell C. Hibbeler



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