

EXAMPLE 1.3

The 500-kg engine is suspended from the crane boom in Fig. 1-6a. Determine the resultant internal loadings acting on the cross section of the boom at point E .

SOLUTION

Support Reactions. We will consider segment AE of the boom so we must first determine the pin reactions at A . Notice that member CD is a two-force member. The free-body diagram of the boom is shown in Fig. 1-6b. Applying the equations of equilibrium,

$$+\circlearrowleft \Sigma M_A = 0; \quad F_{CD}\left(\frac{2}{3}\right)(2 \text{ m}) - [500(9.81) \text{ N}](3 \text{ m}) = 0$$

$$F_{CD} = 12\,262.5 \text{ N}$$

$$+\rightarrow \Sigma F_x = 0; \quad A_x - (12\,262.5 \text{ N})\left(\frac{4}{5}\right) = 0$$

$$A_x = 9810 \text{ N}$$

$$+\uparrow \Sigma F_y = 0; \quad -A_y + (12\,262.5 \text{ N})\left(\frac{3}{5}\right) - 500(9.81) \text{ N} = 0$$

$$A_y = 2452.5 \text{ N}$$

Free-Body Diagram. The free-body diagram of segment AE is shown in Fig. 1-6c.

Equations of Equilibrium.

$$+\rightarrow \Sigma F_x = 0; \quad N_E + 9810 \text{ N} = 0$$

$$N_E = -9810 \text{ N} = -9.81 \text{ kN}$$

Ans

$$+\uparrow \Sigma F_y = 0; \quad -V_E - 2452.5 \text{ N} = 0$$

$$V_E = -2452.5 \text{ N} = -2.45 \text{ kN}$$

Ans

$$+\circlearrowleft \Sigma M_E = 0; \quad M_E + (2452.5 \text{ N})(1 \text{ m}) = 0$$

$$M_E = -2452.5 \text{ N} \cdot \text{m} = -2.45 \text{ kN} \cdot \text{m}$$

Ans

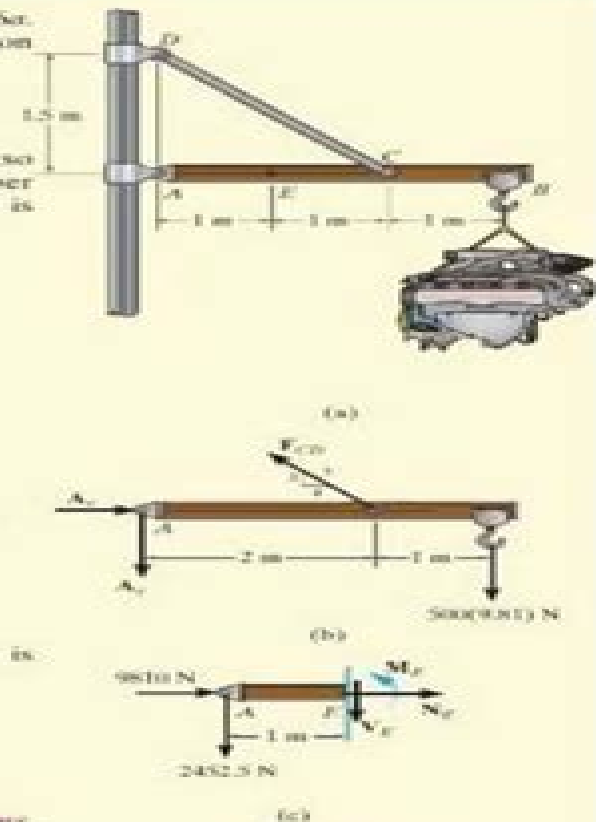


Fig. 1-6

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**Steven R. Schmid, Bernard J.
Hamrock, Bo. O. Jacobson**



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