

EXAMPLE 1.4

Determine the resultant internal loadings acting on the cross section at G of the beam shown in Fig. 1-7a. Each joint is pin connected.

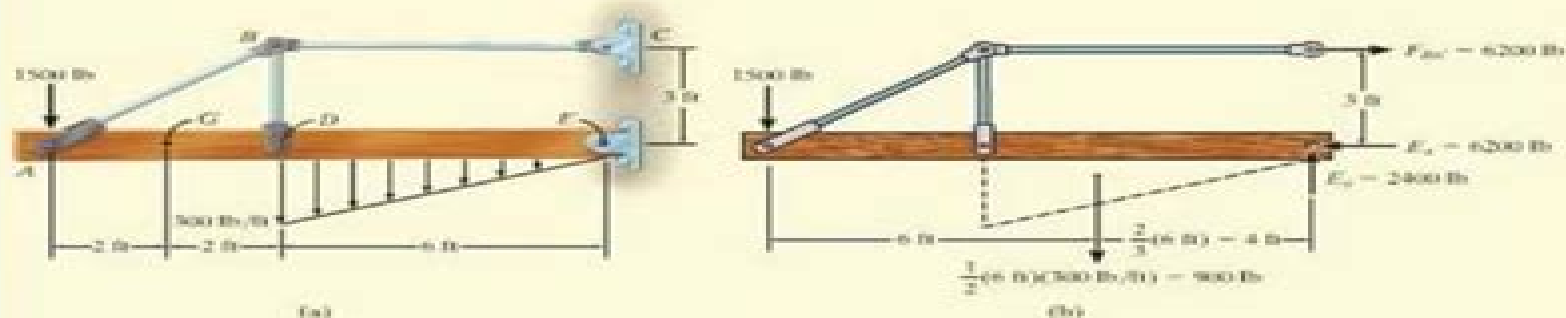


Fig. 1-7

SOLUTION

Support Reactions. Here we will consider segment AG . The free-body diagram of the *entire* structure is shown in Fig. 1-7b. Verify the calculated reactions at E and C . In particular, note that BC is a *two-force member* since only two forces act on it. For this reason the force at C must act along BC , which is horizontal as shown.

Since BA and BD are also two-force members, the free-body diagram of joint B is shown in Fig. 1-7c. Again, verify the magnitudes of forces F_{BA} and F_{BD} .



Free-Body Diagram. Using the result for F_{BA} , the free-body diagram of segment AG is shown in Fig. 1-7d.

Equations of Equilibrium.

$$\rightarrow \Sigma F_x = 0; \quad 7750 \text{ lb} \left(\frac{3}{5} \right) + N_G = 0 \quad N_G = -6200 \text{ lb} \quad \text{Ans.}$$

$$+\uparrow \Sigma F_y = 0; \quad -1500 \text{ lb} + 7750 \text{ lb} \left(\frac{4}{5} \right) - V_G = 0$$

$$V_G = 3150 \text{ lb} \quad \text{Ans.}$$

$$\curvearrowleft \Sigma M_G = 0; \quad M_G - (7750 \text{ lb}) \left(\frac{3}{5} \right) (2 \text{ ft}) + 1500 \text{ lb} (2 \text{ ft}) = 0$$

$$M_G = 6300 \text{ lb} \cdot \text{ft} \quad \text{Ans.}$$

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