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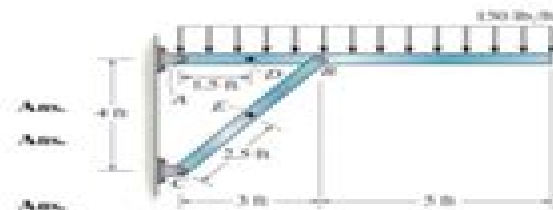
***1-104.** Determine the resultant internal loadings acting on the cross sections located through points *D* and *E* of the frame.

Segment *AD*:

$$\begin{aligned} \rightarrow + \Sigma F_x &= 0; & N_D - 1.2 &= 0; & N_D &= 1.20 \text{ kip} \\ + \uparrow \Sigma F_y &= 0; & V_D + 0.225 + 0.4 &= 0; & V_D &= -0.625 \text{ kip} \\ \zeta + \Sigma M_D &= 0; & M_D + 0.225(0.75) + 0.4(1.5) &= 0 \\ & & M_D &= -0.769 \text{ kip}\cdot\text{ft} \end{aligned}$$

Segment *CE*:

$$\begin{aligned} \nearrow + \Sigma F_x &= 0; & N_E + 2.0 &= 0; & N_E &= -2.00 \text{ kip} \\ \searrow + \Sigma F_y &= 0; & V_E &= 0 \\ \zeta + \Sigma M_E &= 0; & M_E &= 0 \end{aligned}$$



Ans.

Ans.

Ans.

Ans.

Ans.

Ans.

***1-105.** The pulley is held fixed to the 20-mm-diameter shaft using a key that fits within a groove cut into the pulley and shaft. If the suspended load has a mass of 50 kg, determine the average shear stress in the key along section *a-a*. The key is 5 mm by 5 mm square and 12 mm long.

$$\zeta + \Sigma M_D = 0; \quad F(100) - 490.5(75) = 0$$

$$F = 3678.75 \text{ N}$$

$$\tau_{\text{avg}} = \frac{V}{A} = \frac{3678.75}{(0.005)(0.012)} = 61.3 \text{ MPa}$$



Ans.

Mechanics Of Material Hibbeler 8th Edition Solution Manual

SJ Ball



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