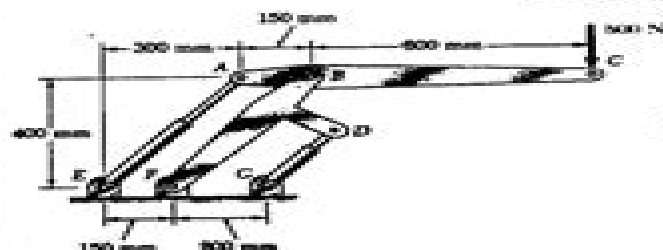


# PROBLEM 1.14

1.14 Two hydraulic cylinders are used to control the position of the robotic arm ABC. Knowing that the control rods attached at A and D each have a 20-mm diameter and happen to be parallel in the position shown, determine the average normal stress in (a) member AE, (b) member DG.



## SOLUTION

Use member ABC as free body.



$$\sum M_B = 0 \quad (0.150) \left( \frac{4}{3} F_{AE} \right) - (0.600)(300) = 0 \quad F_{AE} = 4 \times 10^3 \text{ N}$$

Area of rod in member AE is  $A = \frac{\pi}{4} d^2 = \frac{\pi}{4} (20 \times 10^{-3})^2 = 314.16 \times 10^{-6} \text{ m}^2$

Stress in rod AE:  $\sigma_{AE} = \frac{F_{AE}}{A} = \frac{4 \times 10^3}{314.16 \times 10^{-6}} = 12.73 \times 10^6 \text{ Pa}$

(a)  $\sigma_{AE} = 12.73 \text{ MPa}$



Use combined members ABC and BFD as free body.

$$\sum M_F = 0$$

$$(0.150) \left( \frac{4}{3} F_{AE} \right) - (0.200) \left( \frac{4}{3} F_{DG} \right) - (1.050 - 0.350)(300) = 0 \quad F_{DG} = -1500 \text{ N}$$

Area in rod DG is  $A = \frac{\pi}{4} d^2 = \frac{\pi}{4} (20 \times 10^{-3})^2 = 314.16 \times 10^{-6} \text{ m}^2$

Stress in rod DG:  $\sigma_{DG} = \frac{F_{DG}}{A} = \frac{-1500}{314.16 \times 10^{-6}} = -4.77 \times 10^6 \text{ Pa}$

(b)  $\sigma_{DG} = -4.77 \text{ MPa}$

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**KJ Lindholm-Leary**



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