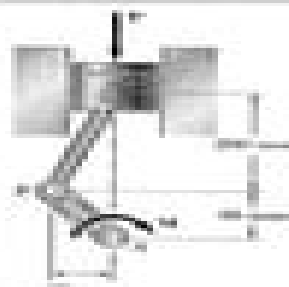


Problem 1.13

1.13 A couple M of magnitude $1500 \text{ N}\cdot\text{m}$ is applied to the crank of an engine. For the position shown, determine (a) the force P required to hold the engine system in equilibrium, (b) the average normal stress in the connecting rod BC , which has a 450-mm^2 uniform cross section.

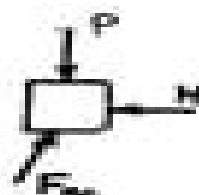
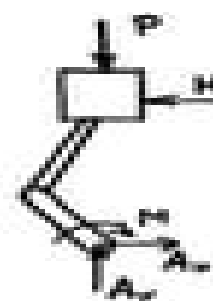


Use piston, rod, and crank together as free body. Add wall reaction H and bearing reactions A_x and A_y .

$$\oplus \sum M_A = 0:$$

$$(0.250\text{ m})H - 1500 \text{ N}\cdot\text{m} = 0$$

$$H = 5.2571 \times 10^3 \text{ N}$$



Use piston alone as free body. Note that rod is a two-force member; hence the direction of force F_{BC} is known. Draw the force triangle and solve for P and F_{BC} by proportions.

$$R = \sqrt{200^2 + 50^2} = 206.81 \text{ mm}$$

$$\frac{P}{H} = \frac{200}{50} \quad \therefore \quad P = 17.36 \times 10^3 \text{ N}$$

$$P = 17.36 \text{ kN} \quad \blacktriangleleft$$

$$\frac{F_{BC}}{H} = \frac{206.81}{50} \quad \therefore \quad F_{BC} = 18.693 \times 10^3 \text{ N}$$

Rod BC is a compression member. Its area is $450 \text{ mm}^2 = 450 \times 10^{-6} \text{ m}^2$.

$$\text{Stress,} \quad \sigma_{BC} = \frac{-F_{BC}}{A} = \frac{-18.693 \times 10^3}{450 \times 10^{-6}} = -41.4 \times 10^3 \text{ Pa}$$

$$(b) \quad \sigma_{BC} = -41.4 \text{ MPa} \quad \blacktriangleleft$$

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