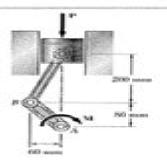
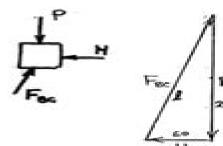
Problem 1.13

1.13 A couple M of magnitude 1500 N · 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-mm² uniform cross section.



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



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

$$\ell = \sqrt{200^2 + 60^2} = 208.81 \text{ mm}$$

Rod BC is a compression member. Its area is $450 \, \text{mm}^2 = 450 \times 10^6 \, \text{m}^2$ Stress. $60 = \frac{-F_{BC}}{A} = \frac{-18.643 \times 10^3}{450 \times 10^{-6}} = -41.4 \times 10^6 \, \text{Pa}$ (b) $60 = -41.4 \, \text{MPa}$

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