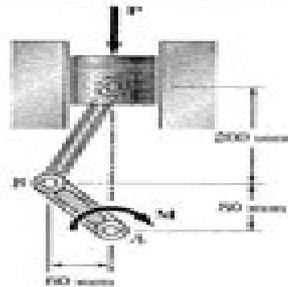


**Problem 1.13**

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  $450\text{-mm}^2$  uniform cross section.

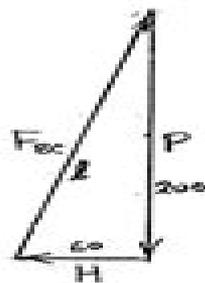
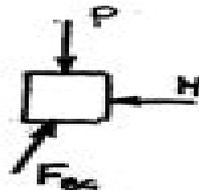
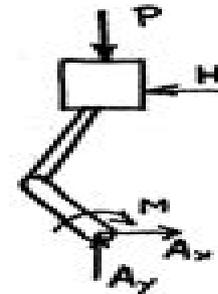


Use piston, rod, and crank together as free body. Add wall reaction  $H$  and bearing reactions  $A_x$  and  $A_y$ .

$$\sum M_A = 0:$$

$$(0.280 \text{ m})H - 1500 \text{ N} \cdot \text{m} = 0$$

$$H = 5.3571 \times 10^3 \text{ N}$$



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.

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

$$\frac{P}{H} = \frac{200}{60} \quad \therefore \quad P = 17.86 \times 10^3 \text{ N}$$

$$P = 17.86 \text{ kN} \quad \blacktriangleleft$$

$$\frac{F_{bc}}{H} = \frac{208.81}{60} \quad \therefore \quad F_{bc} = 18.643 \times 10^3 \text{ N}$$

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

Stress, 
$$\sigma_{bc} = \frac{-F_{bc}}{A} = \frac{-18.643 \times 10^3}{450 \times 10^{-6}} = -41.4 \times 10^6 \text{ Pa}$$

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

# Beer Johnston Solution

**Chao Zhang**



**Beer Johnston Solution :**

## Unveiling the Magic of Words: A Report on "**Beer Johnston Solution** "

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Beer Johnston Solution** ," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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