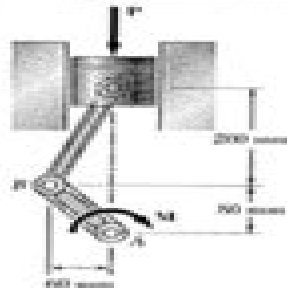


Problem 1.13

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.

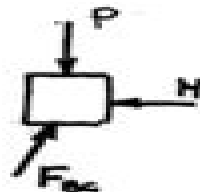
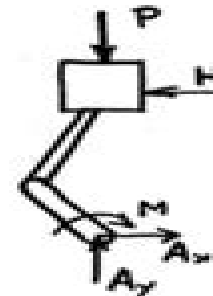


Use piston, rod, and crank together as free body. Add wall reaction H and bearing reactions A_x and A_y .

$$\sum M_A = 0:$$

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

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



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.

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

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

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

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

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

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

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

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Table of Contents Beer Johnston Solution

1. Understanding the eBook Beer Johnston Solution
 - The Rise of Digital Reading Beer Johnston Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Beer Johnston Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Beer Johnston Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Beer Johnston Solution
 - Personalized Recommendations
 - Beer Johnston Solution User Reviews and Ratings
 - Beer Johnston Solution and Bestseller Lists
5. Accessing Beer Johnston Solution Free and Paid eBooks
 - Beer Johnston Solution Public Domain eBooks
 - Beer Johnston Solution eBook Subscription Services
 - Beer Johnston Solution Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Beer Johnston Solution Compatibility with Devices
 - Beer Johnston Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Beer Johnston Solution
 - Highlighting and Note-Taking Beer Johnston Solution
 - Interactive Elements Beer Johnston Solution
8. Staying Engaged with Beer Johnston Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Beer Johnston Solution
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Beer Johnston Solution
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Beer Johnston Solution
 - Setting Reading Goals Beer Johnston Solution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Beer Johnston Solution
 - Fact-Checking eBook Content of Beer Johnston Solution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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