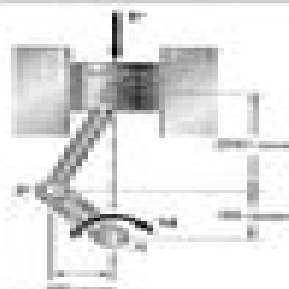


Problem 1.13

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.

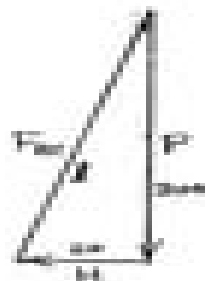
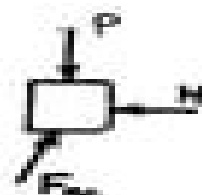
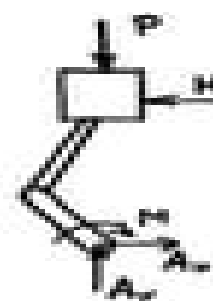


Use piston, rod, and crank together as free body. Add wall reaction H and bearing reactions A_x and A_y .

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

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

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



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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1. Understanding the eBook Solution Manual Beer Johnston 9th
 - The Rise of Digital Reading Solution Manual Beer Johnston 9th
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Beer Johnston 9th
 - 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 Solution Manual Beer Johnston 9th
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Beer Johnston 9th
 - Personalized Recommendations
 - Solution Manual Beer Johnston 9th User Reviews and Ratings
 - Solution Manual Beer Johnston 9th and Bestseller Lists
5. Accessing Solution Manual Beer Johnston 9th Free and Paid eBooks

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 - Solution Manual Beer Johnston 9th eBook Subscription Services
 - Solution Manual Beer Johnston 9th Budget-Friendly Options
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- ePub, PDF, MOBI, and More
 - Solution Manual Beer Johnston 9th Compatibility with Devices
 - Solution Manual Beer Johnston 9th Enhanced eBook Features
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- Adjustable Fonts and Text Sizes of Solution Manual Beer Johnston 9th
 - Highlighting and Note-Taking Solution Manual Beer Johnston 9th
 - Interactive Elements Solution Manual Beer Johnston 9th
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- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Beer Johnston 9th
9. Balancing eBooks and Physical Books Solution Manual Beer Johnston 9th
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Beer Johnston 9th
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solution Manual Beer Johnston 9th
- Setting Reading Goals Solution Manual Beer Johnston 9th
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Manual Beer Johnston 9th
- Fact-Checking eBook Content of Solution Manual Beer Johnston 9th
 - 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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