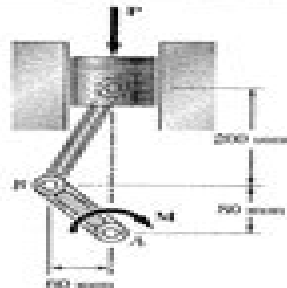


Problem 1.13

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.

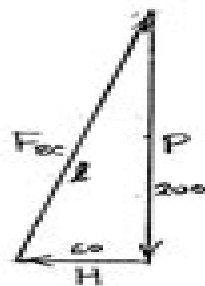
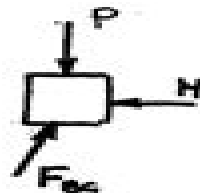
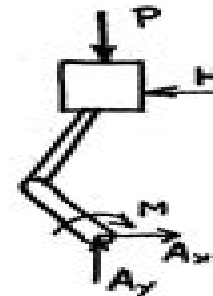


Use piston, rod, and crank together as free body. Add wall reaction H and bearing reactions A_x and A_y .

$$\sum M_A = 0:$$

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

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



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)

$$\sigma_{bc} = -41.4 \text{ MPa}$$

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Ying Liu



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principles This text is designed to help the instructor achieve this goal Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics Vector methods are also used to solve many problems particularly three dimensional problems where these techniques result in a simpler and more concise solution The emphasis in this text however remains on the correct understanding of the principles of mechanics and on their application to the solution of engineering problems and vector analysis is presented chiefly as a convenient tool In order to achieve the goal of being able to analyze mechanics problems the text employs the following pedagogical strategy Practical applications are introduced early New concepts are introduced simply Fundamental principles are placed in simple contexts Students are given extensive practice through sample problems special sections entitled Solving Problems on Your Own extensive homework problem sets review problems at the end of each chapter and computer problems designed to be solved with computational software Resources Supporting This Textbook Instructor s and Solutions Manual features typeset one per page solutions to the end of chapter problems It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated Table II prepares a brief description of all groups of problems Sample lesson schedules are shown in Tables III IV and V together with various alternative lists of assigned homework problems For additional resources related to users of this SI edition please visit <http://www.mheducation.com> beerjohnston McGraw Hill Connect Engineering a web based assignment and assessment platform is available at <http://www.mhhe.com/beerjohnston> and includes algorithmic problems from the text Lecture PowerPoints an image bank and animations Hands on Mechanics is a website designed for instructors who are interested in incorporating three dimensional hands on teaching aids into their lectures Developed through a partnership between the McGraw Hill Engineering Team and the Department of Civil and Mechanical Engineering at the United States Military Academy at West Point this website not only provides detailed instructions for how to build 3 D teaching tools using materials found in any lab or local hardware store but also provides a community where educators can share ideas trade best practices and submit their own original demonstrations for posting on the site Visit <http://www.handsonmechanics.com> McGraw Hill Tegrity a service that makes class time available all the time by automatically capturing every lecture in a searchable format for students to review when they study and complete assignments To learn more about Tegrity watch a 2 minute Flash demo at <http://tegritycampus.mhhe.com>

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Table of Contents Solution Manual Beer Johnston Mechanics

1. Understanding the eBook Solution Manual Beer Johnston Mechanics
 - The Rise of Digital Reading Solution Manual Beer Johnston Mechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Beer Johnston Mechanics
 - 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 Mechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Beer Johnston Mechanics
 - Personalized Recommendations
 - Solution Manual Beer Johnston Mechanics User Reviews and Ratings
 - Solution Manual Beer Johnston Mechanics and Bestseller Lists
5. Accessing Solution Manual Beer Johnston Mechanics Free and Paid eBooks
 - Solution Manual Beer Johnston Mechanics Public Domain eBooks
 - Solution Manual Beer Johnston Mechanics eBook Subscription Services
 - Solution Manual Beer Johnston Mechanics Budget-Friendly Options
6. Navigating Solution Manual Beer Johnston Mechanics eBook Formats
 - ePub, PDF, MOBI, and More
 - Solution Manual Beer Johnston Mechanics Compatibility with Devices
 - Solution Manual Beer Johnston Mechanics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Beer Johnston Mechanics
 - Highlighting and Note-Taking Solution Manual Beer Johnston Mechanics
 - Interactive Elements Solution Manual Beer Johnston Mechanics
8. Staying Engaged with Solution Manual Beer Johnston Mechanics

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Solution Manual Beer Johnston Mechanics
- 9. Balancing eBooks and Physical Books Solution Manual Beer Johnston Mechanics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Beer Johnston Mechanics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual Beer Johnston Mechanics
 - Setting Reading Goals Solution Manual Beer Johnston Mechanics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual Beer Johnston Mechanics
 - Fact-Checking eBook Content of Solution Manual Beer Johnston Mechanics
 - 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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