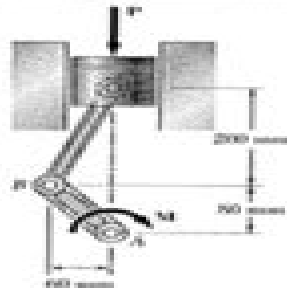


# Problem 1.13

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.

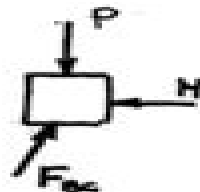
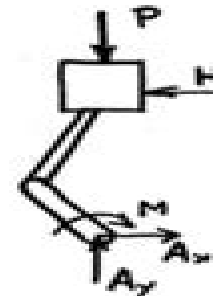


Use piston, rod, and crank together as free body. Add wall reaction  $H$  and bearing reactions  $A_x$  and  $A_y$ .

$$\sum M_A = 0:$$

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

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



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.

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

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

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

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

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

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

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

# Solution Mechanics Of Materials Beer Johnston 6th

**Joseph Edward Shigley, Charles R.  
Mischke, Richard Gordon Budynas**



## **Solution Mechanics Of Materials Beer Johnston 6th:**

Mechanics of Materials – Formulas and Problems Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-11-25 This book contains the most important formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Stress Strain Hooke's Law Tension and Compression in Bars Bending of Beams Torsion Energy Methods Buckling of Bars Hydrostatics      *Mechanics of Bonded and Adhesively Bonded Joints* Xiang-fa Wu, 2024-11-27 Mechanics of Bonded and Adhesively Bonded Joints provides an overview of the most effective analytical solutions for common bonded and adhesively bonded joints In each type of joint analyzed the analytical stress solution is formulated and final numerical results are provided for easy use and self learning Analytical and high efficiency semianalytical methods for interfacial stress and fracture analysis of various bonded and adhesively bonded joints are provided as are related joint design insights and advanced applications in structures and devices Fundamentals of elasticity fracture mechanics and viscoelasticity are also introduced The book starts by introducing different kinds of joining technology and how joints are classified followed by chapters looking at the fundamentals of elasticity and fracture mechanics From there the book explores various analytical solutions to interfacial stresses strength and toughness of bonded joints and the viscoelastic mechanics of adhesives and concludes with a chapter covering the applications of these joining theories exploring their use in smart materials microelectronics packaging surface coatings laminated composite materials and more Synthesizes the literature on analytical solutions and applications for bonded and adhesively bonded joints Provides pros cons and best applications for each method discussed Covers the fundamentals of elasticity fracture mechanics viscoelasticity and other mechanics of materials phenomena      **Mechanics of Materials** Ferdinand Beer, Jr. Johnston, E. Russell, John DeWolf, David Mazurek, 2011-01-04 Beer and Johnston's Mechanics of Materials is the uncontested leader for the teaching of solid mechanics Used by thousands of students around the globe since its publication in 1981 Mechanics of Materials provides a precise presentation of the subject illustrated with numerous engineering examples that students both understand and relate to theory and application The tried and true methodology for presenting material gives your student the best opportunity to succeed in this course From the detailed examples to the homework problems to the carefully developed solutions manual you and your students can be confident the material is clearly explained and accurately represented If you want the best book for your students we feel Beer Johnston's Mechanics of Materials 6th edition is your only choice      **Structural Engineering Basics** Devesh Chauhan, 2025-02-20 Structural Engineering Basics is a comprehensive textbook designed to provide students engineers and professionals with a solid understanding of essential structural engineering principles We offer a balanced blend of theoretical concepts practical applications and real world

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### **Table of Contents Solution Mechanics Of Materials Beer Johnston 6th**

1. Understanding the eBook Solution Mechanics Of Materials Beer Johnston 6th
  - The Rise of Digital Reading Solution Mechanics Of Materials Beer Johnston 6th
  - Advantages of eBooks Over Traditional Books
2. Identifying Solution Mechanics Of Materials Beer Johnston 6th
  - 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 Mechanics Of Materials Beer Johnston 6th
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Mechanics Of Materials Beer Johnston 6th
  - Personalized Recommendations
  - Solution Mechanics Of Materials Beer Johnston 6th User Reviews and Ratings
  - Solution Mechanics Of Materials Beer Johnston 6th and Bestseller Lists

5. Accessing Solution Mechanics Of Materials Beer Johnston 6th Free and Paid eBooks
  - Solution Mechanics Of Materials Beer Johnston 6th Public Domain eBooks
  - Solution Mechanics Of Materials Beer Johnston 6th eBook Subscription Services
  - Solution Mechanics Of Materials Beer Johnston 6th Budget-Friendly Options
6. Navigating Solution Mechanics Of Materials Beer Johnston 6th eBook Formats
  - ePub, PDF, MOBI, and More
  - Solution Mechanics Of Materials Beer Johnston 6th Compatibility with Devices
  - Solution Mechanics Of Materials Beer Johnston 6th Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solution Mechanics Of Materials Beer Johnston 6th
  - Highlighting and Note-Taking Solution Mechanics Of Materials Beer Johnston 6th
  - Interactive Elements Solution Mechanics Of Materials Beer Johnston 6th
8. Staying Engaged with Solution Mechanics Of Materials Beer Johnston 6th
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solution Mechanics Of Materials Beer Johnston 6th
9. Balancing eBooks and Physical Books Solution Mechanics Of Materials Beer Johnston 6th
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solution Mechanics Of Materials Beer Johnston 6th
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Solution Mechanics Of Materials Beer Johnston 6th
  - Setting Reading Goals Solution Mechanics Of Materials Beer Johnston 6th
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Mechanics Of Materials Beer Johnston 6th
  - Fact-Checking eBook Content of Solution Mechanics Of Materials Beer Johnston 6th
  - 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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