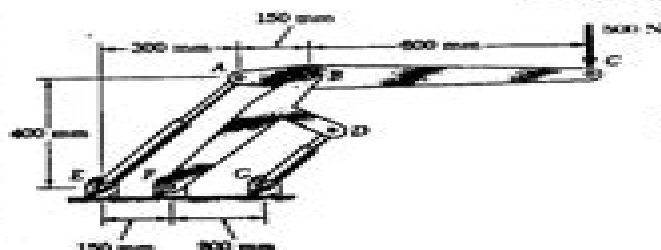


PROBLEM 1.14

1.14 Two hydraulic cylinders are used to control the position of the robotic arm ABC. Knowing that the control rods attached at A and D each have a 20-mm diameter and happen to be parallel in the position shown, determine the average normal stress in (a) member AE, (b) member DG.



SOLUTION

Use member ABC as free body.



$$\sum M_B = 0 \quad (0.150) \left(\frac{4}{3} F_{AE} \right) - (0.600)(800) = 0 \quad F_{AE} = 4 \times 10^3 \text{ N}$$

Area of rod in member AE is $A = \frac{\pi}{4} d^2 = \frac{\pi}{4} (20 \times 10^{-3})^2 = 314.16 \times 10^{-6} \text{ m}^2$

Stress in rod AE: $\sigma_{AE} = \frac{F_{AE}}{A} = \frac{4 \times 10^3}{314.16 \times 10^{-6}} = 12.73 \times 10^6 \text{ Pa}$

(a) $\sigma_{AE} = 12.73 \text{ MPa}$



Use combined members ABC and BFD as free body.

$$\sum M_F = 0$$

$$(0.150) \left(\frac{4}{3} F_{AE} \right) - (0.200) \left(\frac{4}{3} F_{DG} \right) - (1.050 - 0.350)(800) = 0 \quad F_{DG} = -1500 \text{ N}$$

Area in rod DG is $A = \frac{\pi}{4} d^2 = \frac{\pi}{4} (20 \times 10^{-3})^2 = 314.16 \times 10^{-6} \text{ m}^2$

Stress in rod DG: $\sigma_{DG} = \frac{F_{DG}}{A} = \frac{-1500}{314.16 \times 10^{-6}} = -4.77 \times 10^6 \text{ Pa}$

(b) $\sigma_{DG} = -4.77 \text{ MPa}$

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Table of Contents Mechanics Of Materials By Dewolf 4th Edition Solutions Manual

1. Understanding the eBook Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - The Rise of Digital Reading Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - 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 Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Personalized Recommendations
 - Mechanics Of Materials By Dewolf 4th Edition Solutions Manual User Reviews and Ratings

- Mechanics Of Materials By Dewolf 4th Edition Solutions Manual and Bestseller Lists
- 5. Accessing Mechanics Of Materials By Dewolf 4th Edition Solutions Manual Free and Paid eBooks
 - Mechanics Of Materials By Dewolf 4th Edition Solutions Manual Public Domain eBooks
 - Mechanics Of Materials By Dewolf 4th Edition Solutions Manual eBook Subscription Services
 - Mechanics Of Materials By Dewolf 4th Edition Solutions Manual Budget-Friendly Options
- 6. Navigating Mechanics Of Materials By Dewolf 4th Edition Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics Of Materials By Dewolf 4th Edition Solutions Manual Compatibility with Devices
 - Mechanics Of Materials By Dewolf 4th Edition Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Highlighting and Note-Taking Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Interactive Elements Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
- 8. Staying Engaged with Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
- 9. Balancing eBooks and Physical Books Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Setting Reading Goals Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - Fact-Checking eBook Content of Mechanics Of Materials By Dewolf 4th Edition Solutions Manual
 - 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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