

Problem 1.1

1.1 Two solid cylindrical rods AB and BC are welded together at B and loaded as shown. Determine the magnitude of the force P for which the tensile stress in rod AB is twice the magnitude of the compressive stress in rod BC .

$$A_{AB} = \frac{\pi}{4} (50)^2 = 1963.5 \text{ mm}^2$$

$$\sigma_{AB} = \frac{P}{A_{AB}} = \frac{P}{1963.5} = 509.3 \times 10^{-6} P$$

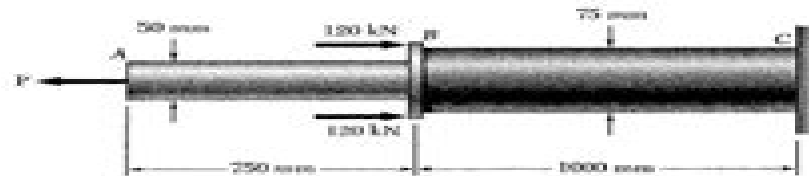
$$A_{BC} = \frac{\pi}{4} (75)^2 = 4417.9 \text{ mm}^2$$

$$\sigma_{BC} = \frac{(2)(120) - P}{A_{AB}} = \frac{240 - P}{4417.9} = 0.0543 - 226.4 \times 10^{-6} P$$

Equating σ_{AB} to $2 \sigma_{BC}$

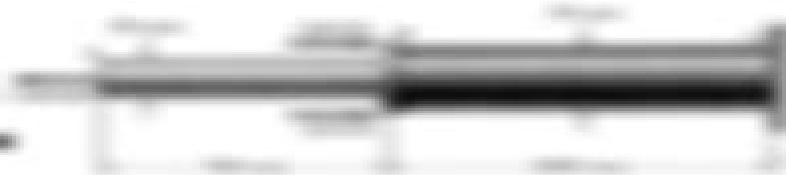
$$509.3 \times 10^{-6} P = 2(0.0543 - 226.4 \times 10^{-6} P)$$

$$P = 112.9 \text{ kN}$$



Problem 1.2

1.2 In Prob. 1.1, knowing that $P = 160 \text{ kN}$, determine the average normal stress at the midsection of (a) rod AB , (b) rod BC .



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Peipei Pang



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Table of Contents 5th Edition Beer Johnston Solution Manual 238506

1. Understanding the eBook 5th Edition Beer Johnston Solution Manual 238506
 - The Rise of Digital Reading 5th Edition Beer Johnston Solution Manual 238506
 - Advantages of eBooks Over Traditional Books
2. Identifying 5th Edition Beer Johnston Solution Manual 238506
 - 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 5th Edition Beer Johnston Solution Manual 238506
 - User-Friendly Interface
4. Exploring eBook Recommendations from 5th Edition Beer Johnston Solution Manual 238506
 - Personalized Recommendations
 - 5th Edition Beer Johnston Solution Manual 238506 User Reviews and Ratings
 - 5th Edition Beer Johnston Solution Manual 238506 and Bestseller Lists
5. Accessing 5th Edition Beer Johnston Solution Manual 238506 Free and Paid eBooks
 - 5th Edition Beer Johnston Solution Manual 238506 Public Domain eBooks
 - 5th Edition Beer Johnston Solution Manual 238506 eBook Subscription Services
 - 5th Edition Beer Johnston Solution Manual 238506 Budget-Friendly Options
6. Navigating 5th Edition Beer Johnston Solution Manual 238506 eBook Formats

- ePub, PDF, MOBI, and More
- 5th Edition Beer Johnston Solution Manual 238506 Compatibility with Devices
- 5th Edition Beer Johnston Solution Manual 238506 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 5th Edition Beer Johnston Solution Manual 238506
 - Highlighting and Note-Taking 5th Edition Beer Johnston Solution Manual 238506
 - Interactive Elements 5th Edition Beer Johnston Solution Manual 238506
- 8. Staying Engaged with 5th Edition Beer Johnston Solution Manual 238506
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 5th Edition Beer Johnston Solution Manual 238506
- 9. Balancing eBooks and Physical Books 5th Edition Beer Johnston Solution Manual 238506
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 5th Edition Beer Johnston Solution Manual 238506
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 5th Edition Beer Johnston Solution Manual 238506
 - Setting Reading Goals 5th Edition Beer Johnston Solution Manual 238506
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 5th Edition Beer Johnston Solution Manual 238506
 - Fact-Checking eBook Content of 5th Edition Beer Johnston Solution Manual 238506
 - 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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