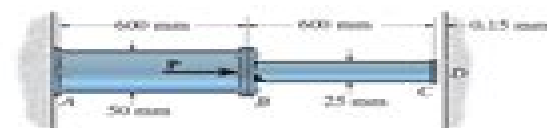


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4-46. If the gap between C and the rigid wall at D is initially 0.15 mm, determine the support reactions at A and D when the force $P = 200$ kN is applied. The assembly is made of A36 steel.



Equation of Equilibrium: Referring to the free-body diagram of the assembly shown in Fig. a,

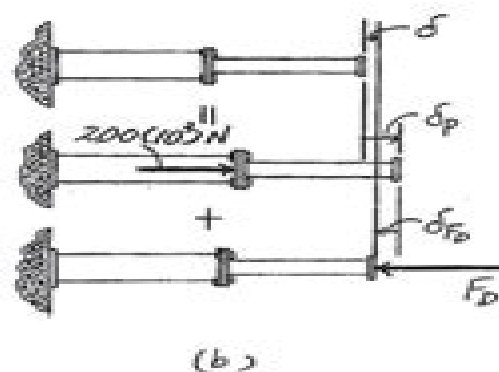
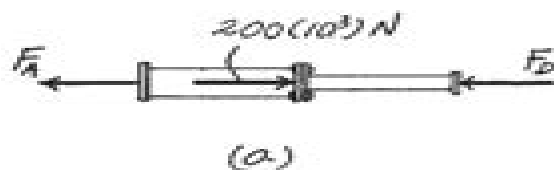
$$\rightarrow \Sigma F_x = 0; \quad 200(10^3) - F_D - F_A = 0 \quad (1)$$

Compatibility Equation: Using the method of superposition, Fig. b,

$$\begin{aligned} (\rightarrow) \quad \delta &= \delta_P + \delta_{F_D} \\ 0.15 &= \frac{200(10^3)(600)}{\frac{\pi}{4}(0.05^2)(200)(10^6)} + \left[\frac{F_D(600)}{\frac{\pi}{4}(0.05^2)(200)(10^6)} + \frac{F_D(600)}{\frac{\pi}{4}(0.025^2)(200)(10^6)} \right] \\ F_D &= 20,365.05 \text{ N} = 20.4 \text{ kN} \quad \text{Ans.} \end{aligned}$$

Substituting this result into Eq. (1),

$$F_A = 179,634.95 \text{ N} = 180 \text{ kN} \quad \text{Ans.}$$



Solution Manual For Strength Of Materials

Robert L. Mott, Joseph A. Untener



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Table of Contents Solution Manual For Strength Of Materials

1. Understanding the eBook Solution Manual For Strength Of Materials
 - The Rise of Digital Reading Solution Manual For Strength Of Materials
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual For Strength Of Materials
 - 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 For Strength Of Materials
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual For Strength Of Materials
 - Personalized Recommendations
 - Solution Manual For Strength Of Materials User Reviews and Ratings

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