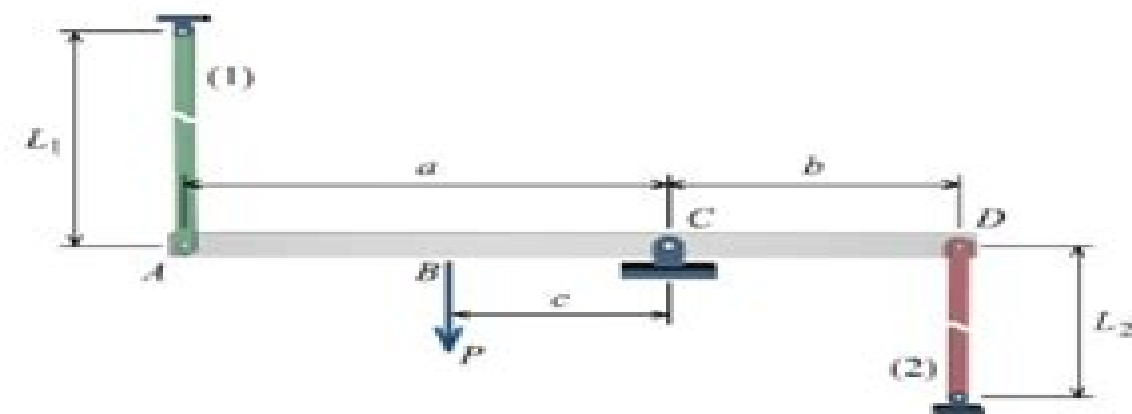


The pin-connected structure shown in the figure consists of a rigid beam  $ABCD$  and two supporting bars. Bar (1) is a bronze alloy [ $E = 99 \text{ GPa}$ ] with a cross-sectional area of  $A_1 = 330 \text{ mm}^2$ . Bar (2) is an aluminum alloy [ $E = 73 \text{ GPa}$ ] with a cross-sectional area of  $A_2 = 660 \text{ mm}^2$ . Assume  $L_1 = 2520 \text{ mm}$ ,  $a = 1080 \text{ mm}$ ,  $b = 600 \text{ mm}$ ,  $c = 440 \text{ mm}$ , and  $L_2 = 1800 \text{ mm}$ . If a load of  $P = 35 \text{ kN}$  is applied at  $B$ , determine

- the normal stresses (positive if in tension and negative if in compression) in both bars (1) and (2).
- the downward deflection of point  $A$  on the rigid bar.



Answers:

(a)  $\sigma_1 =$   MPa  
 $\sigma_2 =$   MPa  
 (b)  $v_A =$   mm  
 the tolerance is +/- 2%

# Questions Answers On Strength Of Materials

**Thirumalaisamy P.  
Velavancorresponding**



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## **Table of Contents Questions Answers On Strength Of Materials**

1. Understanding the eBook Questions Answers On Strength Of Materials
  - The Rise of Digital Reading Questions Answers On Strength Of Materials
  - Advantages of eBooks Over Traditional Books
2. Identifying Questions Answers On 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 Questions Answers On Strength Of Materials
  - User-Friendly Interface
4. Exploring eBook Recommendations from Questions Answers On Strength Of Materials
  - Personalized Recommendations
  - Questions Answers On Strength Of Materials User Reviews and Ratings
  - Questions Answers On Strength Of Materials and Bestseller Lists
5. Accessing Questions Answers On Strength Of Materials Free and Paid eBooks
  - Questions Answers On Strength Of Materials Public Domain eBooks
  - Questions Answers On Strength Of Materials eBook Subscription Services
  - Questions Answers On Strength Of Materials Budget-Friendly Options
6. Navigating Questions Answers On Strength Of Materials eBook Formats

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