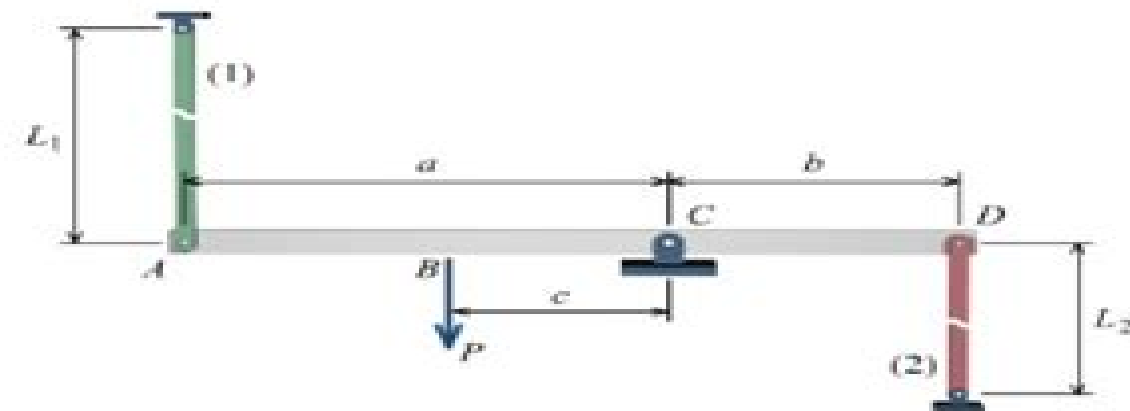


The pin-connected structure shown in the figure consists of a rigid beam  $ABCD$  and two supporting bars. Bar (1) is a bronze alloy [ $E = 99 \text{ GPa}$ ] with a cross-sectional area of  $A_1 = 330 \text{ mm}^2$ . Bar (2) is an aluminum alloy [ $E = 73 \text{ GPa}$ ] with a cross-sectional area of  $A_2 = 660 \text{ mm}^2$ . 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  $\pm 2\%$

# Questions Answers On Strength Of Materials

**Eugene Spangenberg, Albert  
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