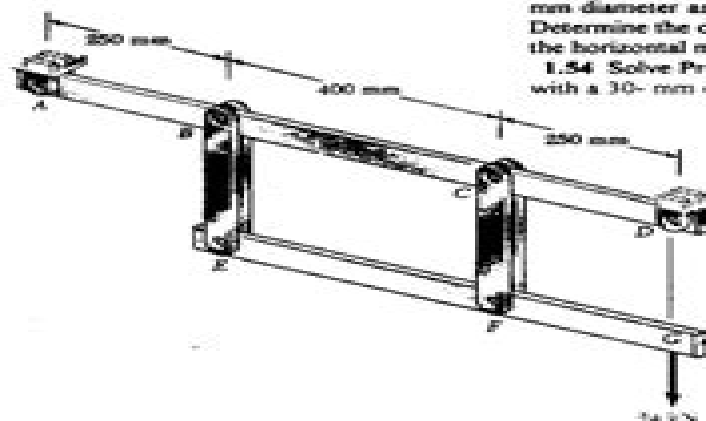


PROBLEM 1.54

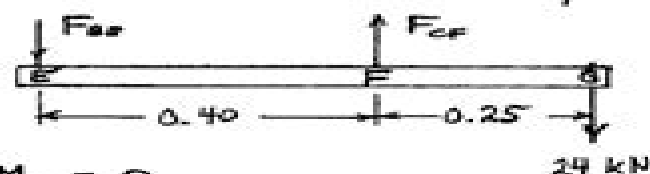


1.53 Each of the two vertical links CF connecting the two horizontal members AD and EG has a 10×40 -mm uniform rectangular cross section and is made of a steel with an ultimate strength in tension of 400 MPa, while each of the pins at C and F has a 20-mm diameter and is made of a steel with an ultimate strength in shear of 150 MPa. Determine the overall factor of safety for the links CF and the pins connecting them to the horizontal members.

1.54 Solve Prob. 1.53, assuming that the pins at C and F have been replaced by pins with a 30-mm diameter.

SOLUTION

Use member EFG as free body.



$$\sum M_E = 0$$

$$0.40 F_{CF} - (0.65)(24 \times 10^3) = 0$$

$$F_{CF} = 39 \times 10^3 \text{ N}$$

Based on tension in links CF

$$A = (b - d)t = (0.040 - 0.030)(0.010) = 100 \times 10^{-6} \text{ m}^2 \text{ (one link)}$$

$$F_u = 2 \sigma_u A = (2)(400 \times 10^6)(100 \times 10^{-6}) = 80.0 \times 10^3 \text{ N}$$

Based on double shear in pins

$$A = \frac{\pi}{4} d^2 = \frac{\pi}{4} (0.030)^2 = 706.86 \times 10^{-6} \text{ m}^2$$

$$F_u = 2 \tau_u A = (2)(150 \times 10^6)(706.86 \times 10^{-6}) = 212.06 \times 10^3 \text{ N}$$

Actual F_u is smaller value, i.e. $F_u = 80.0 \times 10^3 \text{ N}$

Factor of safety $F.S. = \frac{F_u}{F_{CF}} = \frac{80.0 \times 10^3}{39 \times 10^3} = 2.05$

Johnston 60sweeper Manual

Shasha Hu



Johnston 60sweeper Manual:

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