

**PROBLEMS-Chapter 1**

1. The lower ends of the two hangers in Fig. 1-41 were at the same elevation before the loads were applied. The horizontal member is of uniform cross section. Find the value of length  $l$  if the horizontal member (assumed to be rigid) is horizontal after all loads are acting.  
*Ans.  $l = 38.3$  in.*



Figure 1-41 Problem 1.

*Solution:* To solve this problem we will need to draw a free body diagram as shown below:



The moment at the left rod:

$$48F_s = 1,500 \times 28.5 + 800 \times 6 + 1,000 \times 30 + 900 \times 54$$

$$F_s = \frac{126,150}{48} = 2,628 \text{ lbf}$$

The moment at the right rod:

# Design Of Machine Elements 8th Solution Manual

**Michael Hoelscher**



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