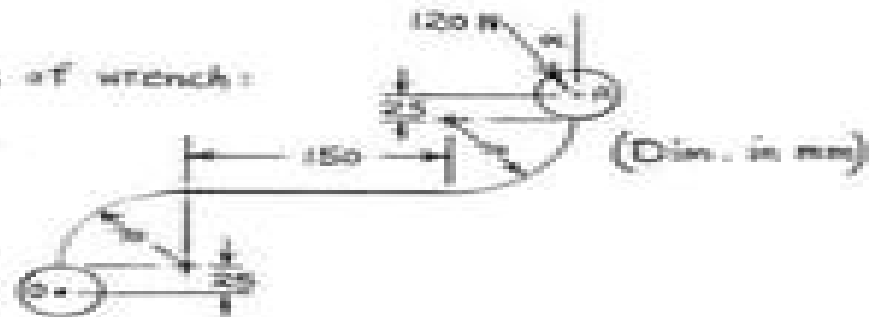


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Elements of wrench:



$\alpha = 30^\circ$ :

$$\begin{aligned} \Rightarrow M_o &= 120 \cos 30^\circ [70 + 150 + 70] \\ &\quad + 120 \sin 30^\circ [25 + 70 + 70 + 25] = 41\,500 \text{ N}\cdot\text{mm} \end{aligned}$$

or  $M_o = 41.5 \text{ N}\cdot\text{m}$  CW

For maximum  $M_o$ :

$$\alpha = \tan^{-1} \left[ \frac{25 + 70 + 25 + 70}{70 + 150 + 70} \right] = \underline{33.2^\circ}$$

$$\begin{aligned} (M_o)_{\max} &= 120 \sqrt{(25 + 70 + 25 + 70)^2 + (70 + 150 + 70)^2} \\ &= 41\,600 \text{ N}\cdot\text{mm} \text{ or } \underline{41.6 \text{ N}\cdot\text{m CW}} \end{aligned}$$

# Meriam Kraige Statics 5th Edition Solution

**Meriam.J.L. (James L.),L. Glenn Kraige**

## **Meriam Kraige Statics 5th Edition Solution:**

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*Meriam's Engineering Mechanics* Meriam, L. G. Kraige, J. N. Bolton, 2020-07-23 Known for its accuracy clarity and dependability Meriam Kraige and Bolton's Engineering Mechanics Statics 9th Edition has provided a solid foundation of mechanics principles for more than 60 years This text continues to help students develop their problem solving skills with an extensive variety of engaging problems related to engineering design In addition to new homework problems the text includes a number of helpful sample problems To help students build necessary visualization and problem solving skills the text strongly emphasizes drawing free body diagrams one of the most important skills needed to solve mechanics problems

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