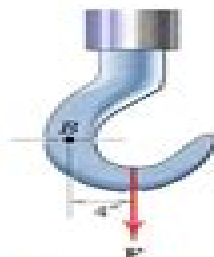


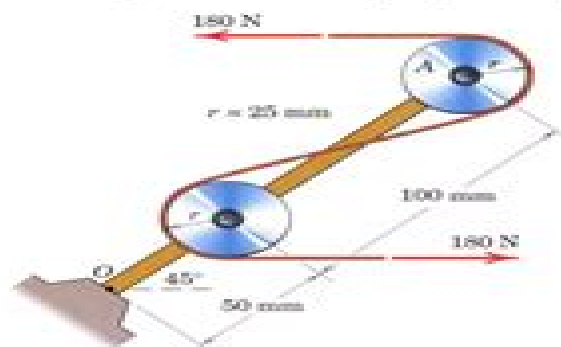
Representative Problems

- 2/61** In the design of the lifting hook the action of the applied force \mathbf{F} at the critical section of the hook is a direct pull at B and a couple. If the magnitude of the couple is 4000 lb-ft, determine the magnitude of \mathbf{F} .
Ans. $F = 12,000$ lb



Problem 2/61

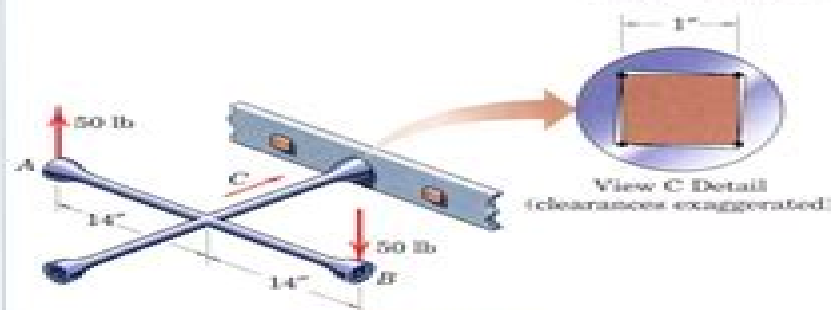
- 2/62** The system consisting of the bar OA , two identical pulleys, and a section of thin tape is subjected to the two 180-N tensile forces shown in the figure. Determine the equivalent force-couple system at point O .



Problem 2/62

- 2/63** A lug wrench is used to tighten a square-head bolt. If 50-lb forces are applied to the wrench as shown, determine the magnitude F of the equal forces exerted on the four contact points on the 1-in. bolt head so that their external effect on the bolt is equivalent to that of the two 50-lb forces. Assume that the forces are perpendicular to the flats of the bolt head.

Ans. $F = 700$ lb



Problem 2/63

- 2/64** The inspection door shown is constructed of sheet steel which is $\frac{1}{8}$ in. thick. Determine the force-couple system located at the hinge center O which is equivalent to the weight of the door. State any assumptions.



Problem 2/64

Engineering Mechanics Meriam Answers

James L. Meriam



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