

FE Review - Solid Mechanics - Statics

Review of vector mechanics and loads analysis

- **Example 1:**

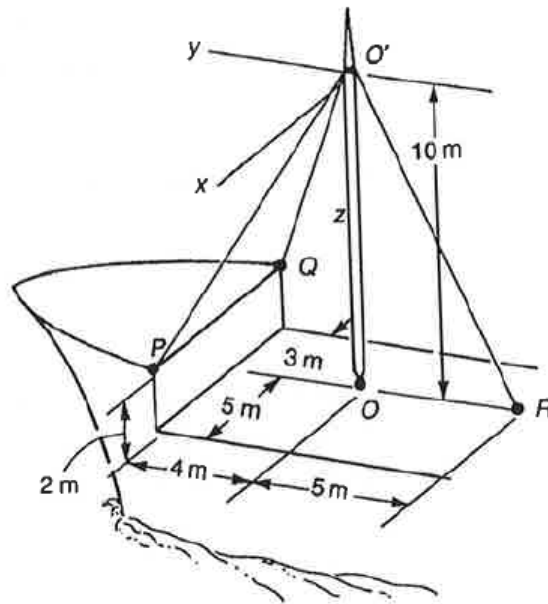


Exhibit 2

1. Determine the lengths of the guylines $O'P$ and $O'Q$ and the angle between them.
2. Suppose the guy line $P'O$ has a tension of 800N. What is the moment from this force about O ?

- Example 2:

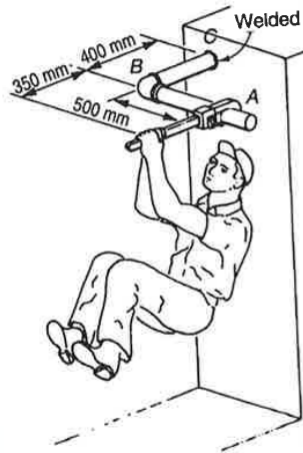


Exhibit 7.13

- 7.13 The plumber in Exhibit 7.13 exerts a vertical downward force of 1 kN on the wrench handle. The moment about C of this force has a magnitude of
- | | |
|------------|-------------|
| a. 500 N•m | c. 900 N•m |
| b. 750 N•m | d. 1250 N•m |

● Example 3:

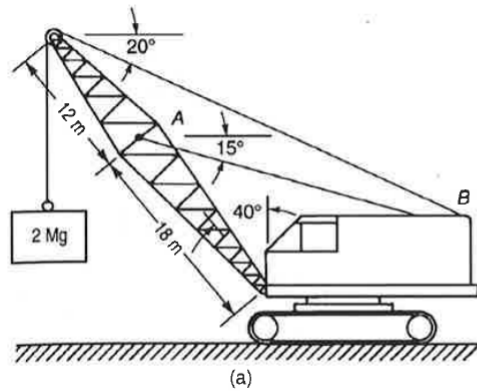
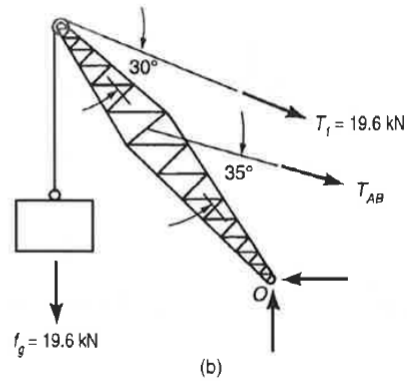


Exhibit 6



1. Neglecting all loads except the $2Mg$ load, find the tension in cable AB.