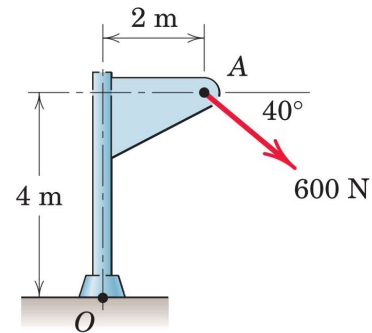


Moment calculation

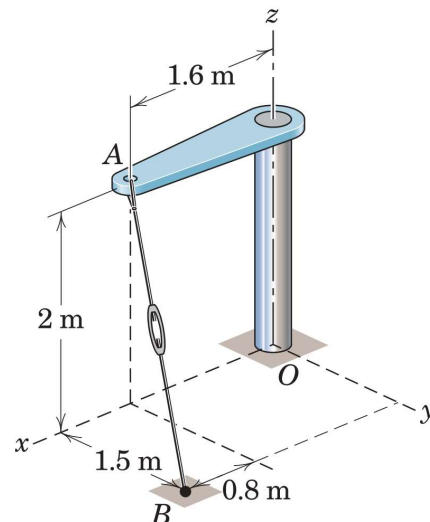
Problem 1:

Calculate the magnitude of the moment about the base point O of the 600-N force (Fig.1).



Problem 2:

The turnbuckle is tightened until the tension in cable AB is 2.4 kN. Determine the Cartesian form of the moment about point O of the cable force acting on point A and the magnitude of this moment (Fig.2)



Problem 3:

Determine the moment of force \mathbf{F} about point O . The force has a magnitude of 800 N and coordinate direction angles of $\theta_x = 60^\circ$, $\theta_y = 120^\circ$, $\theta_z = 45^\circ$. Express the result as a Cartesian vector. (Fig.3)

