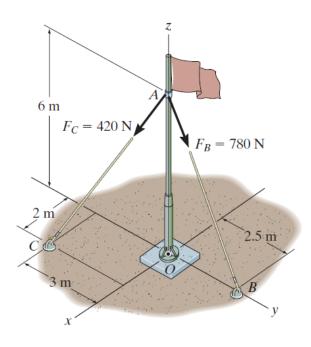
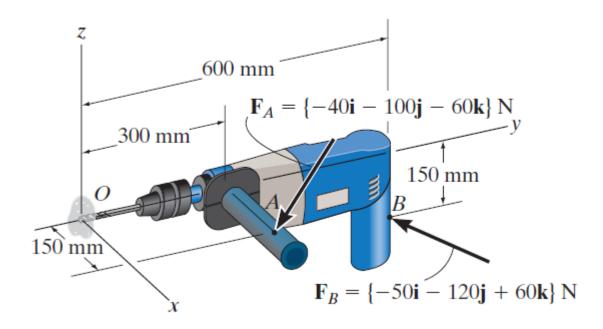
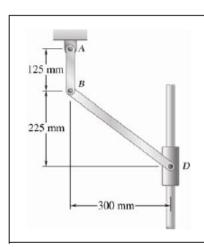
1. Determine the moment produced by force FC and FB about O. Express the results as a Cartesian vector



2. Determine the moment produced by each force about O located on the drill bit. Express the results as Cartesian vectors.





PROBLEM 15.59

Knowing that at the instant shown the angular velocity of crank AB is 2.7 rad/s clockwise, determine (a) the angular velocity of link BD, (b) velocity of collar D, (c) the velocity of the midpoint of link BD.