4.6 The force $F = 8$ kN. What is the moment of the force about point $P$?

4.7 If the magnitude of the moment due to the force $F$ about $Q$ is 30 kN-m, what is $F$?

4.32 The weights $W_1$ and $W_2$ are suspended by the cable system shown. The weight $W_1 = 12$ lb. The cable $BC$ is horizontal. Determine the moment about point $P$ due to the force exerted on the vertical post at $D$ by the cable $CD$.

4.56 What is the magnitude of the moment of $F$ about point $B$?

Problem 4.56

4.98 The tension in cable $AB$ is 80 lb. What is the moment about the line $CD$ due to the force exerted by the cable on the wall at $B$?

Problem 4.98

4.139 Represent the two forces and couple acting on the beam by a force $F$. Determine $F$ and determine where its line of action intersects the $x$ axis.

Problem 4.139