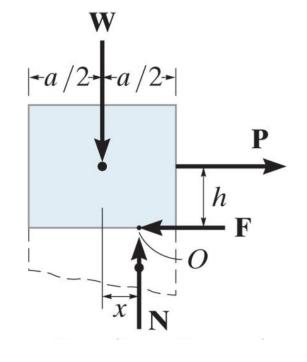
To do ...

- **CBTF Quiz 5** this week!
- Matlab session Thurs Nov 2, 5-6 pm, location TBD
- WA2 has been regraded, thanks for the feedback
- Homework grade distribution
 - Online + written assignment = 18%
- 211 students **DO NOTTAKE** 210 final, or you will get a zero on 211 final

- HW 18 due **Wed**
- HW 19 due **Thurs**
- WA 3 due Fri

Dry friction



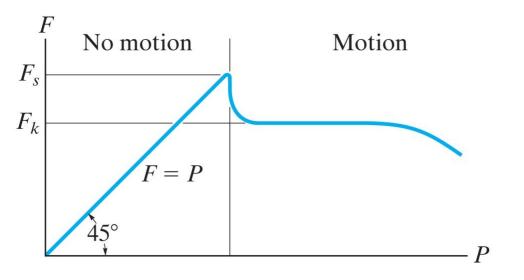
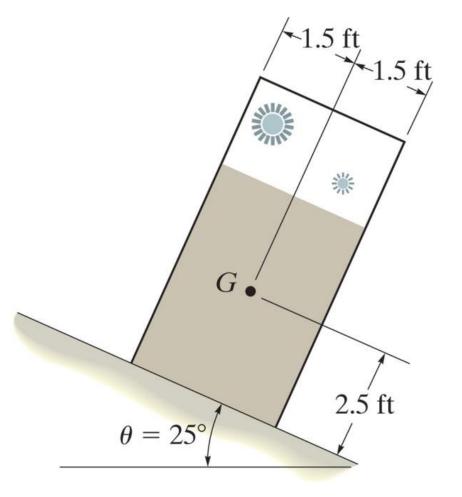
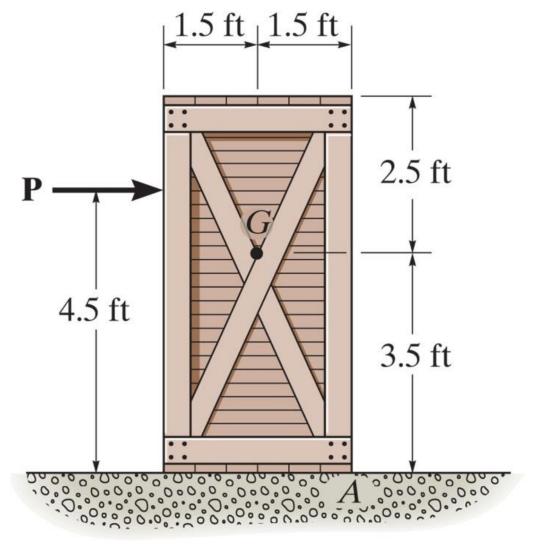


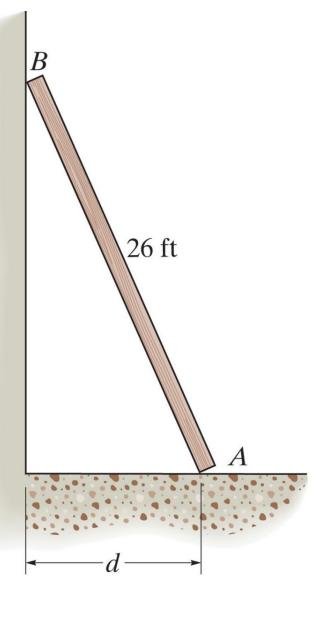
Table 8–1 Typical Values for $oldsymbol{\mu}_s$	
Contact Materials	Coefficient of Static Friction ($\mu_{\rm s}$)
Metal on ice	0.03-0.05
Wood on wood	0.30-0.70
Leather on wood	0.20-0.50
Leather on metal	0.30-0.60
Aluminum on aluminum	1.10–1.70



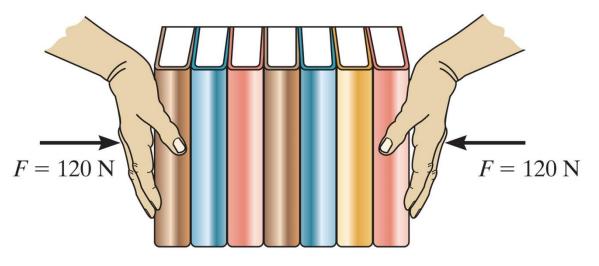
It is observed that when the bed of the dump truck is raised to an angle of $\theta = 25^{o}$ the vending machines will begin to slide off the bed. Determine the static coefficient of friction between a vending machine and the surface of the truck bed.



Find the maximum force P that can be applied without causing movement of the crate.



If it is placed against the smooth wall and on the rough floor in the position, d=10 ft, will it remain in this position when it is released?



Determine the greatest number of books that can be supported in the stack.