

Summary

- Newton's Laws of Motion
 - Inertia
 - $F=ma$
 - Pairs
- Forces:
 - Non-Contact: Gravity
 - Contact: Friction and Normal
- Free Body Diagrams
 - Each direction is independent
- Friction opposes motion, parallel to surface
 - Kinetic $f = \mu_k N$
 - Static $f \leq \mu_s N$