

Statics: Study of bodies that are at rest
or move with a constant velocity

Forces and Idealizations

Force: "Push" or "Pull" exerted by one body
on another

Particle: Possesses mass, but size effects
can be neglected (Neglect the geometry)

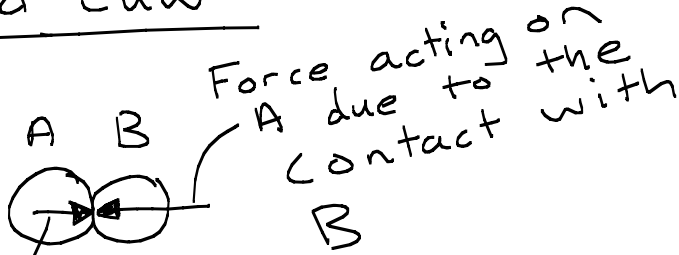
Rigid Body: \Rightarrow Group of particles that don't move
with respect to one another
 \Rightarrow No deformation
 \Rightarrow Material Behavior can be neglected

Concentrated Forces: Forces that act only at a single point

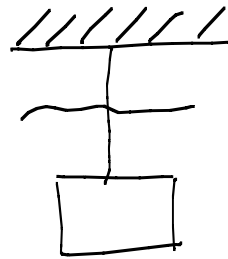


Newton's Laws of Motion

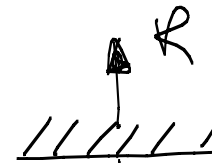
Third Law



Force on B due to the contact with A



"Contact" Force due to the contact with the top section of the cable



Equal and opposite