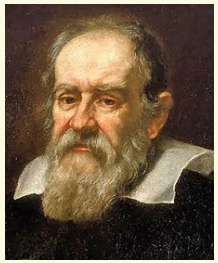
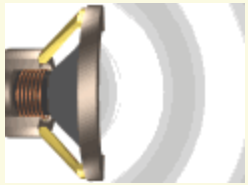
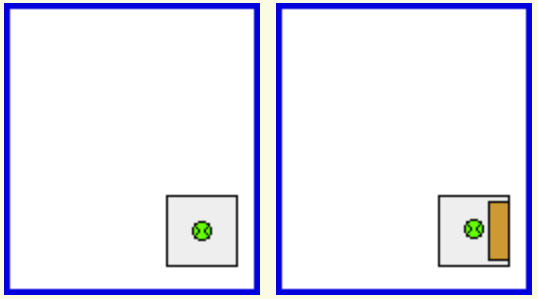




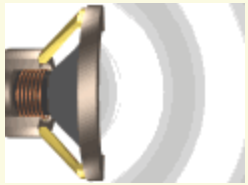
Aula 3: Forças e Momento

1. **Referenciais inerciais e não-inerciais**
2. **Força centrípeta e força centrífuga**
3. **Lei do momento linear**
4. **Impulso de uma força variável**

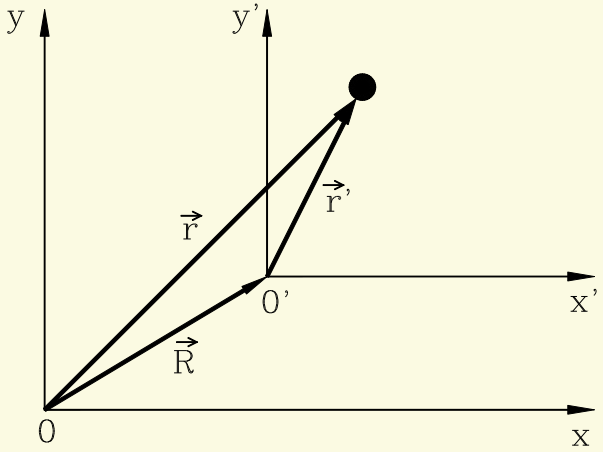


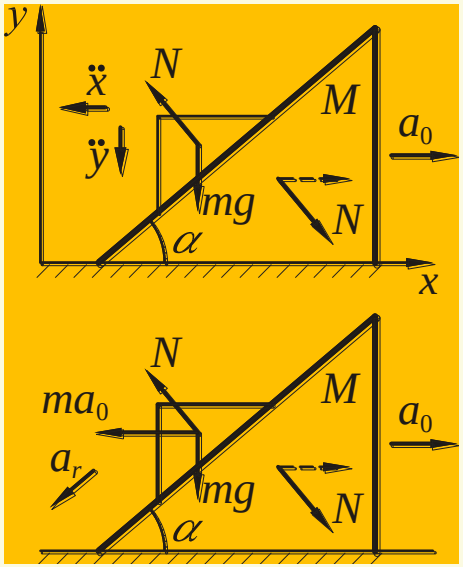
Simulaçao do princípio de Galileo

Estado de imponderabilidade



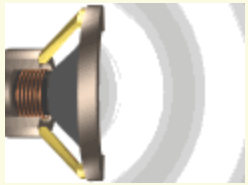
1. Referenciais inerciais e não-inerciais



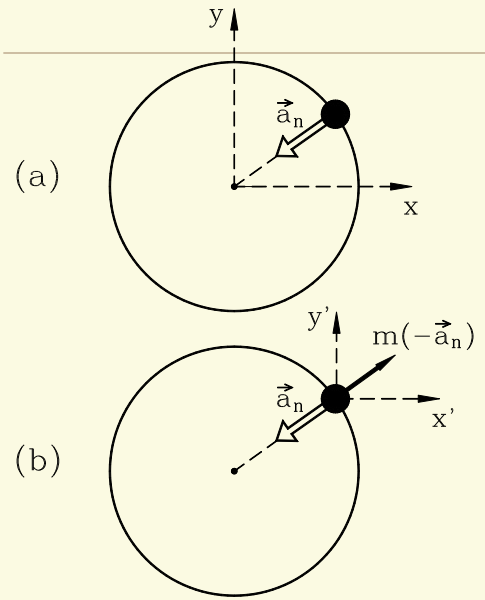


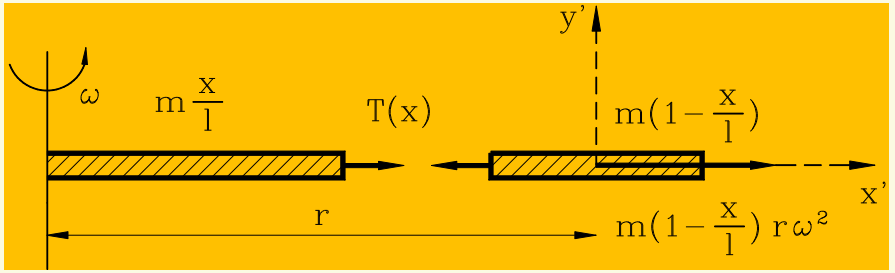
Referencial fixo e referencial próprio: animação

Movimento no referencial fixo

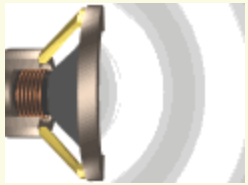


2. Força centrípeta/centrífuga





Simulação: quantidade de movimento



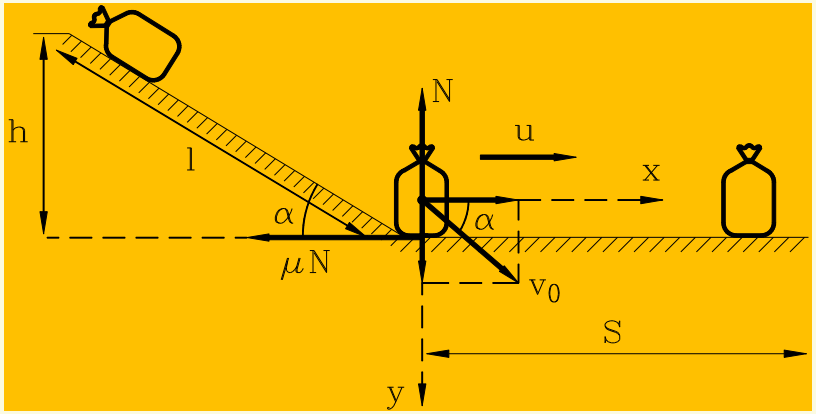
3. Momento linear

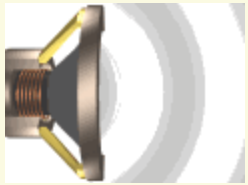
Momento ou quantidade de movimento

$$\vec{p} = m\vec{v}$$

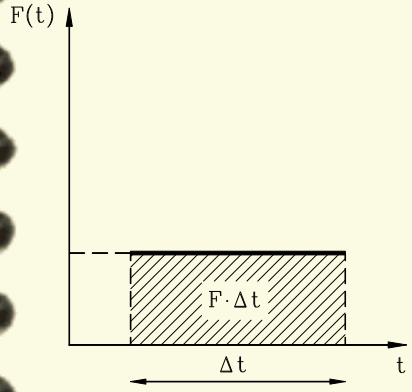
Lei de variação do momento linear

$$\Delta\vec{p} = \vec{F}\Delta t \quad \Rightarrow \quad \vec{p}_f - \vec{p}_i = \vec{F}\Delta t$$

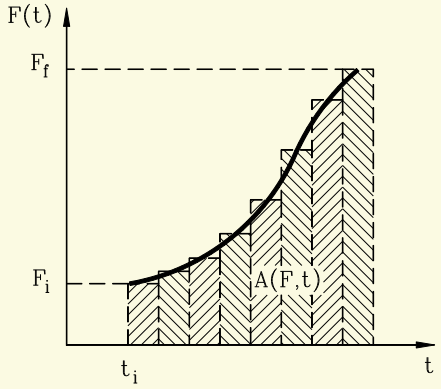




4. Impulso de uma força variável



(a)



(b)