

PHYSICS 1 FINAL REVIEW

Newton's Laws - FORCE DIAGRAMS



Force Diagram with coordinate system



Units of force:

$$N = \frac{kg \cdot m}{s^2}$$

Static vs kinetic friction:

Static: object is not moving

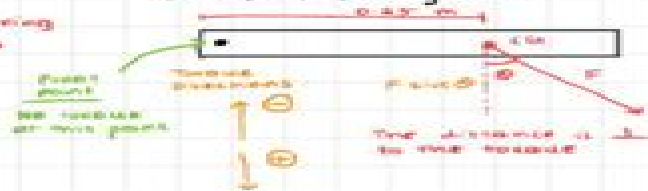
$$F_{static} = \mu_s F_N$$

$$\text{Kinetic: } F_k = \mu_k F_N$$

Conditions for static equilibrium:

$$(i) \sum \vec{F} = 0 \quad (ii) \sum \vec{\tau} = 0$$

Torque force diagram:



Circular motion diagram:



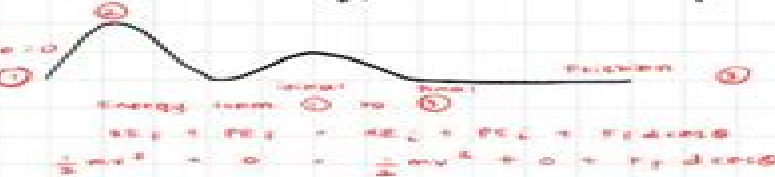
Circular motion @ Top & Bottom of trajectory:



Conservation of Energy:

$$KE_i + PE_i = KE_f + PE_f + W_{nc}$$

conservation of Energy rollercoaster Example:



Elastic Potential Energy - SPRINGS



Power:

The rate at which forces do work

$$P = \frac{\Delta E}{t}$$

Efficiency:

How much waste

KINEMATICS / MECHANICS

work Done by conservative forces:

$$W_{cons} = -(PE_f - PE_i)$$

Ex) friction, applied force, push & pull, airman - non-conservative forces

Density:

$$\rho = \frac{m}{V} \quad \text{units: } \frac{kg}{m^3}$$

Specific Gravity:

Density of substance
Density of H2O @ 40°C
→ 1000 $\frac{kg}{m^3}$
NO UNITS
units: $\frac{kg}{m^3} \div \frac{kg}{m^3} = Pa$

Pressure:

$$p = \frac{F_A}{A} \quad \text{pressure is surface}$$

Pressure in static fluids:

fluid can exert pressure in any direction

$P_{above} = P_{below}$ - pressure is the same in all directions at any depth
force must be perpendicular to the surface it is doing work

Pressure Variance with Depth:

$$P = \frac{F}{A} = \frac{mg}{A} = \rho h g$$

units: $\frac{kg}{m^3} \cdot m \cdot \frac{m}{s^2} = \frac{kg}{m \cdot s^2}$

Gauge Pressure:

$$P = P_{atm} + P_{gauge}$$

Atmospheric Pressure:

Sea level: 1 atm = 1.013 x 10^5 N/m^2 = 101.3 kPa

Pascal's Principle:

$$P_{in} = P_{out}$$

$$\frac{F_{out}}{A_{out}} = \frac{F_{in}}{A_{in}} = \frac{D \cdot g}{D_{out}}$$

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Ensheng Dong



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