

Physics I Equation Sheet

1. Motion

a. General Velocity

$$v_{avg} = \frac{\Delta x}{\Delta t}$$

Acceleration

$$a_{avg} = \frac{\Delta v}{\Delta t}$$

Straight line motion with constant acceleration

$$\Delta x = \frac{1}{2}(v_i + v_f)\Delta t$$

$$v_f = v_i + a\Delta t$$

$$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$$

$$v_f^2 = v_i^2 + 2a\Delta x$$

b. Projectile's fired at an angle

Range

$$\Delta x = \frac{v_o^2 \sin 2\theta}{g}$$

Time in Air

$$\Delta t = \frac{v_o \sin \theta}{g} \times 2$$

Maximum Height

$$\Delta y = \frac{(v_o \sin \theta)^2}{2g}$$

2. Force

a. General

$$F = ma$$

b. Equilibrium

$$\sum F = 0$$

c. Friction

$$F_{fric} = \mu_{k/s} F_N$$

3. Work

a. Done by constant force

$$W_{Net} = F_{Net} d(\cos \theta)$$

b. Work-Energy Theorem

$$W_{Net} = \Delta K.E.$$

Energy

a. Kinetic energy

$$KE = \frac{1}{2}mv^2$$

b. Gravitational Potential Energy

$$U_{grav} = PE = mgh = -Gm_1m_2/r$$

c. Elastic Potential Energy

$$U_{Elastic} = \frac{1}{2}kx^2$$

d. Conservation of Mechanical Energy

$$M.E._i = M.E._f$$

e. Power

$$P = \frac{W}{\Delta t} = Fv$$

Momentum

a. General

$$p = mv$$

b. Impulse-Momentum Theorem

$$J = \Delta p = F\Delta t = mv_f - mv_i$$

c. Conservation of Momentum

$$p_i = p_f$$

College Physics Chapters 1 16

Xiang Xie



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