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PHYS F211X

Formulas

Motion

$$y_f = y_0 + v_0(\Delta t) + \frac{1}{2}a(\Delta t^2) \tag{1}$$

Force

$$\vec{F} = m\vec{a} \tag{2}$$

Drag Force:

$$\vec{F_D} = \tag{3}$$

Key

v = velocity, meters/second

y = height, meters

t = time, seconds

a = acceleration, meters/second^2

g = standard earth acceleration: 9.8m/s^2