$\Delta x = \int v\,dt$ $v = \frac{dx}{dt}$ $a = \frac{dv}{dt}$ $g = 9.81\ \text{m/s}^2$ $F_{net} = ma = \frac{dp}{dt}$ $F_{buoy.} \propto V_{disp.}\rho_{fluid}$ $F_{fr} \propto F_N$

$pressure = F/A$ $p = mv$ $Impulse = \int F_{net}\,dt = \Delta p$ $F_g = GMm/r^2$ $G = 6.67\times10^{-11}$

$M_{Earth} = 6\times10^{24}$ kg $R_{Earth} = 6.4\times10^{6}$ m $T^2/R^3 = \text{constant}$ $F_c = mv^2/r$ $v = 2\pi r/T$ $v_{orb} = \sqrt{(GM/r)}$

$F_E = kQq/r^2$ $k = 9\times10^{9}$ $q_{electron} = -1.6\times10^{-19}$ C $q_{proton} = +1.6\times10^{-19}$ C $E = F_E/q$ $V = IR$

$R \propto L/A$ $F_B \propto 1/r^2$ $B \propto I/r$

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