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(150 8601)

NYU Physics I



3rd story.

density of air
(path obstacles)

molecular ... ?

composition

charge &

magnetization

mass / weight

initial conditions

area

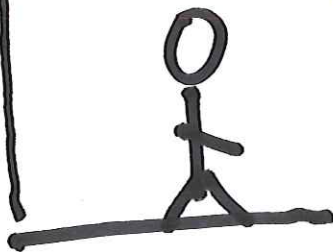
height / position

elevation / geo pos.

wind

bucket - contents
mechanics.

\vec{g}



gravity, locally \vec{g}

(vector) dot product
(add + sub).



9.8 m s^{-2}

SI units



kg m s

- "only" gravity

- m g h

- time?

$$\left[\frac{g}{h} \right] = \frac{1}{\text{s}^2}$$

$$\left[\frac{h}{g} \right] = \text{s}^2$$

time = $\sqrt{\frac{h}{g}}$

$\left[\sqrt{\frac{h}{g}} \right] = \text{s}$

David W. Hogg

~~http://a~~

<http://cosmo.nyu.edu/hogg/physics1/>