

Physics Equations

Force

$$\sum \mathbf{F} = \frac{d\mathbf{p}}{dt} = \frac{d(m\mathbf{v})}{dt}$$
$$\sum \mathbf{F} = m\mathbf{a} \quad (\text{Constant Mass})$$

Acceleration

$$\mathbf{a}_{\text{average}} = \frac{\Delta \mathbf{v}}{\Delta t}$$
$$\mathbf{a} = \frac{d\mathbf{v}}{dt} = \frac{d^2\mathbf{s}}{dt^2}$$

Variance

$$s^2 = \frac{1}{N} \sum_{i=1}^N (x_i - \bar{x})^2$$

Impulse

$$\mathbf{J} = \Delta \mathbf{p} = \int \mathbf{F} dt$$
$$\mathbf{J} = \mathbf{F} \Delta t \quad \text{if } \mathbf{F} \text{ is constant}$$

Velocity

$$v_{\text{average}} = \frac{\Delta d}{\Delta t}$$
$$\mathbf{v} = \frac{d\mathbf{s}}{dt}$$

Kinetic Energy

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

Gravity

$$F = \frac{Gm_1m_2}{r^2}$$

Mass Energy

$$E = mc^2$$

Density

$$\rho = \frac{m}{v}$$

Motion

$$v = v_0 + at$$
$$s = \frac{1}{2}(v_0 + v)t$$
$$s = v_0t + \frac{1}{2}at^2$$
$$v^2 = v_0^2 + 2as$$

Torque

$$\sum \tau = \frac{dL}{dt}$$
$$\sum \tau = \mathbf{r} \times \mathbf{F}$$

Drude Law

$$\alpha = \frac{k}{\lambda^2 - \lambda_0^2}$$

Charge

$$Q = It$$



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