

$$\underline{\underline{v}} = \frac{d\underline{\underline{r}}}{dt}$$

$$\underline{\underline{a}} = \frac{d\underline{\underline{v}}}{dt}$$

$$\underline{\underline{s}}(t) = \underline{\underline{x}}' + \underline{\underline{v}}'(t-t') + \frac{1}{2} \underline{\underline{a}}_0 (t^2 - t'^2)$$

$$\underline{\underline{v}} = \underline{\underline{v}}' + \underline{\underline{a}}_0 (t-t')$$

$$s = \frac{v^2 - v'^2}{2a} = \underline{\underline{v}} \cdot \underline{\underline{t}}$$

$$\underline{\underline{\omega}} = \frac{d\underline{\underline{\phi}}}{dt}$$

$$\underline{\underline{\alpha}} = \frac{d\underline{\underline{\omega}}}{dt}$$

$$\underline{\underline{\phi}}(t) = \underline{\underline{\phi}}' + \underline{\underline{\omega}}'(t-t') + \frac{1}{2} \underline{\underline{\alpha}}(t^2 - t'^2)$$

$$\underline{\underline{\omega}}(t) = \underline{\underline{\omega}}' + \underline{\underline{\alpha}}(t-t')$$

$$\Delta s = r \cdot \Delta \phi$$

$$v = r \cdot \omega$$

$$a_t = r \cdot \alpha$$

$$a_r = v \cdot \omega = r \cdot \omega^2$$

$$\underline{\underline{a}} = \underline{\underline{a}}_t + \underline{\underline{a}}_r$$

$$\underline{\underline{F}} = m \cdot \underline{\underline{a}}$$

$$F = k \cdot \Delta x$$

$$\underline{\underline{F}}_L = k_L \cdot \underline{\underline{F}}_L$$

$$\underline{\underline{F}}_{TR} = k_{TR} \cdot \underline{\underline{F}}_L$$

$$F_D = F_g \cdot k_{TR} \cdot s \sin \alpha$$

$$F_S = F_g \cdot k_{TR} \cdot c \cos \alpha$$

$$\underline{\underline{F}}_g = m \cdot \underline{\underline{g}}$$

$$k_L = \tan \alpha_{\max}$$

$$\underline{\underline{G}} = m \cdot \underline{\underline{v}}$$

$$\underline{\underline{G}}(t) - \underline{\underline{G}}' = \int_{t'}^t \underline{\underline{F}}(t) dt$$

$$\underline{\underline{F}}_C = \Phi_m (\underline{\underline{v}}' - \underline{\underline{v}}) = \frac{1}{2} C S \rho v^2$$

$$dA = \underline{\underline{F}} \circ d\underline{\underline{s}}$$

$$W_K = \frac{1}{2} m \underline{\underline{v}}^2$$

$$P = \frac{dA}{dt} = \underline{\underline{F}} \cdot \underline{\underline{v}} = M \cdot \underline{\underline{\omega}}$$

$$A_g = -m \cdot \int_{z'}^z g(z) dz$$

$$W_p = m \cdot g \cdot h$$

$$F_g = \kappa \frac{m \cdot M}{r^2}$$

$$g(r) = \frac{\kappa \cdot M}{r^2}$$

$$W_{PR} = \frac{1}{2} k x^2$$

$$A_{ostale} = \Delta W_K + \Delta W_p + \Delta W_{PR}$$

$$\underline{\underline{G}} = \sum_i m_i \cdot \underline{\underline{v}}_i$$

$$\frac{d\underline{\underline{G}}}{dt} = \sum_i \underline{\underline{F}}_{iz}$$

$$\underline{\underline{G}} - \underline{\underline{G}}' = \int_{t'}^t \sum_i \underline{\underline{F}}_{iz}$$

$$\underline{\underline{r}}^* = \frac{\sum_i m_i \cdot \underline{\underline{r}}_i}{\sum_i m_i}$$

$$x^* = \frac{\sum_i m_i \cdot x_i}{\sum_i m_i}$$

$$M \cdot \underline{\underline{a}}^* = \sum_i \underline{\underline{F}}_{iz}$$

$$W_p - W_p' = M \cdot g \cdot (z^* - z'^*)$$



telo/os	J
obroč	mr_0^2
obroč	$\frac{1}{2}mr_0^2$
palica	$\frac{1}{12}ml^2$
palica	$\frac{1}{3}ml^2$
valj	$\frac{1}{2}mr_0^2$
krogla	$\frac{3}{2}mr_0^2$

$$\Gamma_z = J \cdot \omega$$

$$\Gamma_z - \Gamma_z' = \int_{t'}^t M_z(t) dt$$

$$W_k = \frac{1}{2} M v^2 + \frac{1}{2} J^* \omega^2$$

$$W_p = M \cdot g \cdot h^*$$

$$p = \frac{F_{\perp}}{S}$$

$$\frac{F}{S} = \frac{\Delta l}{l} \cdot E$$

$$\frac{F}{S} = \frac{\Delta l}{d} \cdot G$$

$$M = D \cdot \Delta \varphi$$

$$\sigma = \frac{F}{S}$$

$$\Delta l = \alpha \cdot l \cdot \Delta T$$

$$\Delta V = \beta \cdot V \cdot \Delta T$$

$$\beta = 3\alpha$$