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Nombre del trabajo: Formulas de Dinámica

Materia: Computación

Grado: 1°

Grupo: Medicina veterinaria y zootecnia.

Ocosingo, Chiapas 09 de noviembre de 2023.

Fórmulas de Dinámica

$$F = ma$$

$$W = mg$$

$$m = \frac{W}{g}$$

$$f_k = mg \cos \alpha \mu_k$$

$$f_s = mg \cos \alpha \mu_s$$

$$F_N = mg \cos \alpha$$

$$F_N = W \cos \alpha$$

$${}^1 f_{\min} = mg (\cos \alpha \mu_s - \sin \alpha)$$

$$a_a = \frac{F \cos \beta}{m} - g \sin \alpha - g \cos \alpha \mu_k$$

$$a_d = \frac{F \cos \beta}{m} + g \sin \alpha - g \cos \alpha \mu_k$$

$${}^2 \mu_k = \frac{F_a \cos \beta}{W \cos \alpha} - \frac{a}{g \cos \alpha} - \tan \alpha$$

$$3\mu_k = \frac{F_d \cos \beta}{W \cos \alpha} - \frac{a}{g \cos \alpha} + \tan \alpha$$

$$F_a = W \left(\frac{a}{g} + \sin \alpha + \cos \alpha \mu_k \right)$$

$$F_d = W \left(\frac{a}{g} - \sin \alpha + \cos \alpha \mu_k \right)$$

Fórmulas de Dinámica	
F	$= ma$
W	$= mg$
m	$= \frac{W}{g}$
f_k	$= mg \cos \alpha \mu_k$
f_s	$= mg \cos \alpha \mu_s$
F_N	$= mg \cos \alpha$
F_N	$= W \cos \alpha$
$^1 F_{\min}$	$= mg(\cos \alpha \mu_s - \sin \alpha)$
a_a	$= \frac{F \cos \beta}{m} - g \sin \alpha - g \cos \alpha \mu_k$
a_d	$= \frac{F \cos \beta}{m} + g \sin \alpha - g \cos \alpha \mu_k$
μ_k	$= \frac{F_a \cos \beta}{W \cos \alpha} - \frac{a}{g \cos \alpha} - \tan \alpha$

F_N	$= mg \cos \alpha$
F_N	$= W \cos \alpha$
$^1 F_{\min}$	$= mg(\cos \alpha \mu_s - \sin \alpha)$
a_a	$= \frac{F \cos \beta}{m} - g \sin \alpha - g \cos \alpha \mu_k$
a_d	$= \frac{F \cos \beta}{m} + g \sin \alpha - g \cos \alpha \mu_k$
$^2 \mu_k$	$= \frac{F_a \cos \beta}{W \cos \alpha} - \frac{a}{g \cos \alpha} - \tan \alpha$
$^3 \mu_k$	$= \frac{F_d \cos \beta}{W \cos \alpha} - \frac{a}{g \cos \alpha} + \tan \alpha$
F_a	$= W \left(\frac{a}{g} + \sin \alpha + \cos \alpha \mu_k \right)$
F_d	$= W \left(\frac{a}{g} - \sin \alpha + \cos \alpha \mu_k \right)$