tormule

1 MECANICA CLASICO

-prima porte (seminosul 1)
-a duna porte (seminasul 2)

de positie

Viteza meolie

Viteza (derivorta I in hopost) cu timpul

$$am = \frac{\Delta V}{\Delta t}$$

a cceleratia medie

acceler otia momentona (obsivota a il-a in hopost)

Momentul fortei

Momental cinetic

$$|V=Vo+a(t-to)|$$

$$|X=Xo+Vo(t-to)+\frac{a(t-to)^{2}}{2}$$

$$E_{c} = \frac{mv^2}{2}$$
 Energia cinetica

$$Ep = mgh$$
 | Linging recention pt. forte elostiq

 $Ep = \frac{k \cdot y^2}{2}$; $Ep = \frac{k \cdot x^2}{2}$ | Energia potentials pt. forte elostiq

- Oscilati armonice libere

$$X(t) = A + \sin(\omega t - f)$$
elongotie amplituoline pulsote #030

ecuosia miscopii esclotosii

T= t periodes in funçie de timp (t) si Oscilofiei in funçie de timp (t) si numanul oscilofila (N)

Oscilotor armanic

$$0 = \frac{1}{2\pi} \sqrt{\frac{3}{2}}$$

$$E = \frac{k \cdot A^2}{2}$$

$$E_C = \frac{m \cdot v^2}{z}$$

$$\left(\frac{\Delta l}{lo}\right) = \frac{1}{E} \cdot \left(\frac{F}{So}\right)$$

1) Compunerea oscilotiiles paralele de aceeosi pulsotie

2) Compunerer Oscilotiiles pondule de pulseție puțin diferito

$$A = ZA_1 \cos\left(\frac{\Delta w}{z} t + \frac{\beta_2 - \beta_1}{z}\right)$$

3) Computerea Oscilatilos perpendiculare de occeos: pulsatie

- elipso generolizata

$$\left(\frac{x}{Ax}\right)^2 + \left(\frac{y}{Ay}\right)^2 + 2 \cdot \frac{x}{Ax} \cdot \frac{y}{Ay} \cos(\ell_2 - \ell_1) = \sin^2(\ell_2 - \ell_1)$$

$$x = Ax cos (wt+fn)$$

 $y = Ay cos (wt+fz)$

$$\left(\begin{array}{c}
d\infty\overline{o} & Ax = Ay \\
cenc
\end{array}\right)$$

$$\left(\begin{array}{c}
Ax > Ay \\
elips \overline{o}
\end{array}\right)$$

- Oscilofii amostizate

ecustia vui oscilati amostizate.

Deficient amostizade

Pulsotia OSC. amostizate

coeficient

D=olechementul logonitmic

$$D = \frac{\ln A}{\ln t}$$

- oscilotii fortole (inhulinuk)

$$A9102 = \frac{F0}{2\beta m \sqrt{wo^2 - \beta^2}}$$

· Puterea instantance absorbet

Pals = Fo wp Ap sinupt - cos(wpt + wp)

. Puterea obsurbità medie

· Puterea instantance disipato

· Puterea disipoto medie

· Puterea moximo

· Puterea efectivo

· Foctobul de Colitoie

$$Q = \frac{\omega o}{2\beta}$$

$$y = A \sin z \pi \left(\frac{t}{T} - \frac{r}{A} \right)$$

$$y = A \sin(\omega t - 12 - 5^2)$$

for a unolei

pr-propogasses de-a bund un ei d'unii onume

vites de loso

Unitati de masura

W

I MECANICA CCASICA

- -prima porte (seminaul])
- a duna poste (seminoulz)

$$h=m$$
, $\Delta h=m$, $\Delta x=m$, $\chi=m$

$$V_m = \frac{m}{s}$$
 $V = \frac{m}{s}$

$$\alpha m = \frac{m}{s^2}, \alpha = \frac{m}{s^2}$$

$$F=N$$
 $1N=leg.\frac{m}{s^2}$

$$G = N$$

constanta oknoczies gnowią Donal

I Mizcarla oscilatorie
- a treja parte (seminarz)

$$X = m$$

$$A = m$$

$$W = \frac{hool}{c}$$

$$T=S$$

$$t=S$$

$$l=m, bl=m$$