$$V = -\delta e^{-\delta} \left( A \cosh \omega' t + B \sinh \omega' t \right) + \omega' e^{-\delta} \left( A \sinh \omega' t + B \cosh \omega' t \right)$$

$$0 = -\delta A + \omega' B - P B = \frac{\delta \times \delta}{\omega'}$$

$$\left[ \chi = \chi \delta e^{-\delta t} \left( \cosh \omega' t + \frac{\delta}{\omega} \sinh \omega' t \right) \right]$$

## Energija prigusenog kitranja

$$E_k = \frac{m v^2}{2}$$
  $v(t), x(t)$ 

$$= v(m\frac{dv}{dt} + kx) = v \cdot (-bv) = -bvz$$

-6 dx

## Prisilno titranje

F=Fosiowt

$$\frac{d^2x}{dt^2} + 2\delta \frac{dx}{dt} + \omega s^2 x = A_0 \sin \omega t$$

 $\frac{d^2x}{dt^2} + 2S\frac{dx}{dt} + \omega s^2 x = A_0 \sin \omega t$ 

- pelisnogen jed.

- opte gesenje:

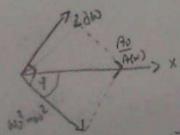
Xon = Xon + Xon

-prijelatoro /trenzijentos vrijeme - vrijeme za loje zbog prigusenja xom utrne

- stacionarno rieserje Xop = Xpp

Ypp = A (w) sin (wt - 4)

#sign t= (w,2-w2) siglat-1) + 25 w cos(wt-1) = (wo2-w2/sig (wt-1)+25 w siglat-1+2)



$$\frac{Ao^2}{A^2(\omega)} = 4d^2\omega^2 + (\omega^2 - \omega^2)^2$$

$$+g = \frac{2 d\omega}{\omega^2 - \omega^2}$$

$$+g = \frac{2 d\omega}{\omega^2 - \omega^2}$$

$$-\frac{2 d\omega}{\omega^2}$$

$$-\frac{2 d\omega}{\omega^2}$$

$$-\frac{2 d\omega}{\omega^2}$$

L

-

$$P = F \cdot V$$

$$V - A \omega \cos(\omega t - P) = A \omega \sin(\omega t - P + \frac{\pi}{2}) = A \omega \sin \omega t$$

$$L \frac{d^2g}{dk^2} + \frac{1}{c}g = 0$$

$$\int_{0}^{\infty} \frac{d^2x}{dk^2} + kx = 0$$

$$\int_{0}^{\infty} \frac{d^2x}{dk^2} + kx = 0$$

T.k. M.O.

Thomsonore

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×	2
Tv /	1 = dR
m	L
k	10
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energij - kondenzalom

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$$L \frac{d^2 t}{dt^2} + R \frac{dR}{dt} + \frac{1}{c} t = V_0 \sin \omega t$$

Abrajanje dvaja harmoničkih titranja na istom pravar jednuke frelvencije 74 = A. sin (who to) Alo = Poz - Pon = bonst. X2 = A2 Sin (wt + Poz) koherentos titranje X = XA + X2 MPZ Ata A2 = A2 + A2 - 2 A2 A2 005 (T - D90) = A12+ A2 + 2A1 Az cos oto 11 - DY0 A = | A12 + A22 + 2 A+ A2 coso to At=12-11  $\frac{t_{y}t}{Ax} = \frac{Ay}{Ax} = \frac{A_{1} \sin t_{1} + A_{2} \sin t_{2}}{A_{1} \cos t_{1} + A_{2} \cos t_{2}}$ MIN AMPERUDA MAY AMPLITUDA De= 11, 31, 51 ---A = A,2 + A22 - 2A1A2 = A1 + A2 1 A = [A,2+A2+2A,A2 = A,+A2 - destruitiona integerency a - konstructions interferencija

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