phenomenon of resonance.

$$y'' + w_o^2 y = \omega_s w.t$$
 $(D^2 + w.^2) y = \omega_s w.t$
 $(D^$

If
$$V_1 = W_0$$
 $(D^2 + W_0^2) y = Gs W_0 t$
 $(D^2 + W_0^2) y = e$
 $(D^2 + W_0^2) y = e$
 $(D^2 + W_0^2) y = e$
 $(W_0 = W_0^2) y = e$

$$(D^2 + W_0^2) y = \omega_0 w_0 t$$

$$y_0 = \frac{\omega_0 w_0 t}{w_0^2 - w_0^2} + \left(-\frac{\omega_0 w_0 t}{w_0^2 - w_0^2} \right)$$

$$W_0^2 - W_1^2$$

$$\lim_{w_{i} \to w_{o}} \frac{(ssw.t - bsw.t)}{w_{i}^{2} - w_{i}^{2}} = \frac{t \sin w_{o}t}{-2w_{o}}$$

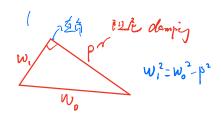
$$\lim_{w_{i} \to w_{o}} \frac{(ssw.t - bsw.t)}{-2w_{o}} = \frac{t \sin w_{o}t}{-2w_{o}}$$



O Damped resmance BERTHE

Book:
$$\begin{cases} mx'' + cx' + kx = f(t) \\ x'' + 2px' + w^2x = f(t) \\ \text{notione freq.} \\ \text{EPIEQUESS} \end{cases}$$

研究中 "pserolo treq," W, PUD目在生态 Visual: x" + b x' + kx = f(x)



y" + 2py' + w." y = 100 wt mes 存在102元。 Q: 什么样的输入多定率才能使的应的标志最大

A:
$$Wm = \int W_0^2 - 2p^2$$

$$\int (p^2 + 2p) t W_0^2 \tilde{y} = e^{iwt}$$

$$\tilde{y} = \frac{e^{iw}}{(iw)^2 + 2p \cdot iw + w_0^2}$$

$$Rel \tilde{y}_p = \tilde{y}_p = \frac{cswt}{-w^2 + w_0^2}$$