® → input "unit impulse."

what an impulse is: 这话 of (f) farce impulse of the over [a,b]: = Sb flet de ()

说: ft 是 mstant F 为柔的作用的对例.

impulse = F·(b-a)

在 t=[2 刘维小4-4起办,

本经对 Junctim:

 $y'' + y = \frac{1}{h} \mathcal{L}_{oh}(t) = \frac{1}{h} \mathcal{L}_{uct} - uct - h$

它的Laplace 专校是什么? (uct-a) g(t-a)

 $\frac{1}{h} \left[\frac{1}{5} - \frac{e^{-hs}}{5} \right]$

e-as ((s)

当上对的好,Laplace trans 存什么怎么

$$\lim_{h\to 0} \frac{1-e^{-hs}}{hs}$$

$$\frac{l = hs}{l} \qquad \frac{l = hs}{l} \qquad \frac{l = hs}{l} \qquad \frac{l = hs}{l} = l$$

Summing:

$$\frac{1}{h} \mathcal{U}_{nh}(t) \sim \frac{1}{h} \left(\frac{1}{5} - \frac{e^{-hs}}{5}\right)$$
 $\frac{1}{h} \sim \frac{1}{h} \left(\frac{1}{5} - \frac{e^{-hs}}{5}\right)$
 $\frac{1}{h} \sim \frac{1}{h} \sim \frac{1$

$$\delta(t)$$

$$\circ \int_{-\infty}^{\infty} 5tt) dt = 1$$

kicked with impulse A at time $t = \frac{\pi}{2}$.

在征延的明治是

$$y'' + y = A \cdot \delta(t - \frac{\pi}{2})$$

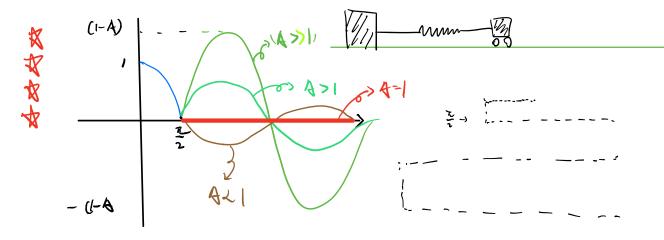
$$S^{2}Y - S + Y = A \cdot e^{-\frac{\pi}{2}S} \cdot 1$$

$$F = S \qquad A e^{-\frac{\pi}{2}S} \qquad A e^{-\frac{\pi}{2}S}$$

$$T = \frac{s}{s^{2}+1} + \frac{Ae^{-\frac{2}{2}s}}{s^{2}+1} \frac{A}{s^{2}+1} \frac{Ae^{-\frac{2}{2}s}}{s^{2}+1} \frac{Ae^{-\frac{2}{2}s}}{s^{2}+1}$$

$$y = (6st + u(t-\frac{7}{2})) A \leq (t-\frac{7}{2})$$

6. 对长鹭祥?



A system:

$$y'' + ay' + by = f(t)$$

input $y=0$
 $y'(w)=0$

The system

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Tips ② 微分神程的解 ——> 闭定软分的形式表示了出来。

y'' + ay' + by = f(t) $y(t) = \int f(u)w(t-w)du$

What is W(t) really?
At 13744513 = expound. kick the mass with unit inner
y"+ ay' +b = S(+)
$S^2 Y + as Y + bY = 1$ $Y = \frac{1}{1}$
$Y = \frac{1}{s^2 + as + b}$ $Y(t) = w(t)$
5×4 W:
加权函数 斜铂镍箔程:

在长的时间受到海拔量后的响应。

前 Jt J(w) w(t-w) dn.
就 相当于

很好定型 冲击 研 量加

Superposition.

kick, kick, ----- kick