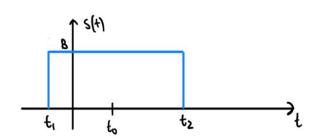
Lezione 5 - 7/03/2024

ESERLIZIO

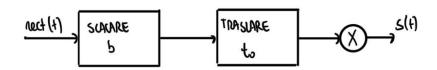
RAPPRESENTARE IL SEGNALE S(t) IN FUNZIONE DI Vect(t)



<u>Sol.</u> bisogram trasformana rect(t) in s(t)

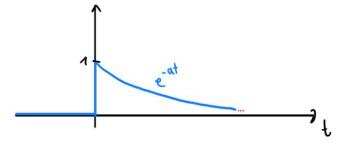
BASE:
$$t_2 + t_1 = b$$

CENTINATO IN: $t_0 = \frac{t_2 - t_1}{2}$

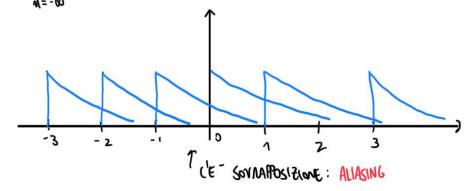


$$\frac{\text{ESER(1760 1 (slide 40)}}{\text{s(t)} = \text{Rep}_{Tp} \text{V(t)}} \quad \text{(an v(t)} = \text{e}^{-\alpha t} \text{ 1(t)}$$





$$Z(t) = \sum_{\tau \neq 0}^{W=-\infty} \Lambda(t \cdot W_{\perp})$$



Lone la gestisso?

ILOUISENIE NET LEKIODO (nº 16)

o & M itsanguros so all suither some abouted observe in

$$S(t) = \sum_{m=-\infty}^{\infty} p(t-mTp)$$

$$= \sum_{m=-\infty}^{\infty} e^{-a(t-mTp)} = e^{-at} \sum_{m=-\infty}^{\infty} e^{amTp}$$

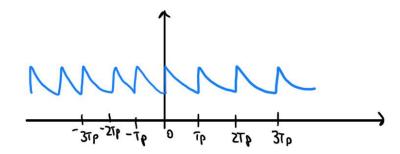
$$= e^{-at} \sum_{m=0}^{\infty} e^{-amTp} = e^{-at} \sum_{m=0}^{\infty} \chi^{m} \quad (\chi = e^{-aTp}) \leq 1$$

$$= \frac{e^{-at}}{1-\alpha} = \frac{e^{-aTp}}{1-e^{-atp}}$$

$$= \frac{e^{-at}}{1-\alpha} = \frac{e^{-at}}{1-e^{-atp}}$$

$$= \frac{e^{-at}}{1-\alpha} = \frac{e^{-at}}{1-e^{-at}}$$

Ova Possicus traviale il grafica



$$\Rightarrow s(t) = \begin{cases} f(t) = \frac{e^{-\alpha t}}{1 - e^{-\alpha T_p}} & t \in (o_1 T_p) \\ f(t - T_p) = \frac{e^{-\alpha (t - T_p)}}{1 - e^{-\alpha T_p}} & t \in [T_p, 2T_p] \end{cases}$$