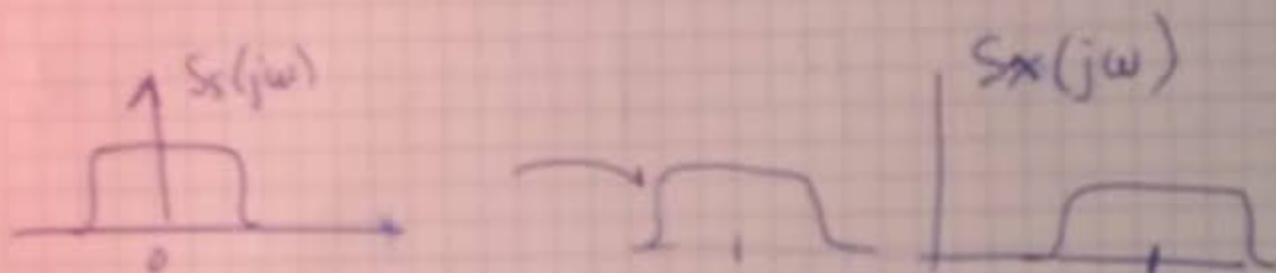


$$S_s(j\omega) = \frac{1}{T} S_n(e^{j\omega T}) |G(j\omega)|^2 \quad \text{process bandwidth}$$

$$S_x(j\omega) = \frac{1}{2} (S_s(j\omega - j\omega_c) + S_s^*(j\omega - j\omega_c))$$



$$e^{j\omega} \\ [u]$$

$$S_n(j\omega) = \frac{N_0}{2}$$

$$\rightarrow S_z(e^{j\omega})$$

d.e.p $z[u]$

cl.e.p $z(t)$

$$S_z(j\omega)$$

$$S_n(j\omega) |F(j\omega)|^2$$

$$S_z(e^{j\omega}) = \frac{N_0}{2T} \sum_k |F(j\frac{\omega}{T} + j\frac{2\pi k}{T})|^2 / S_z(j\omega) = \frac{N_0}{2} |F(j\omega)|^2$$

BB

$$\underline{S_s(j\omega)} \rightarrow S_x(j\omega)$$

$$S_x(j\omega) = \frac{1}{T} S_A(e^{j\omega T}) |G(j\omega)|^2$$

$$P(j\omega) \rightarrow \sum_k P(j\omega + j^2 \frac{\pi k}{T}) = dk$$

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$$W_{BD} = \frac{\pi}{T} (1+\alpha) = \pi \underline{R_s} (1+\alpha)$$

$$W_{PB} = 2\pi \underline{R_s} (1+\alpha) = \frac{2\pi}{T} (1+\alpha)$$

$$R_b = R_s \cdot \log_2 4$$

$$S_A(e^{j\omega})$$

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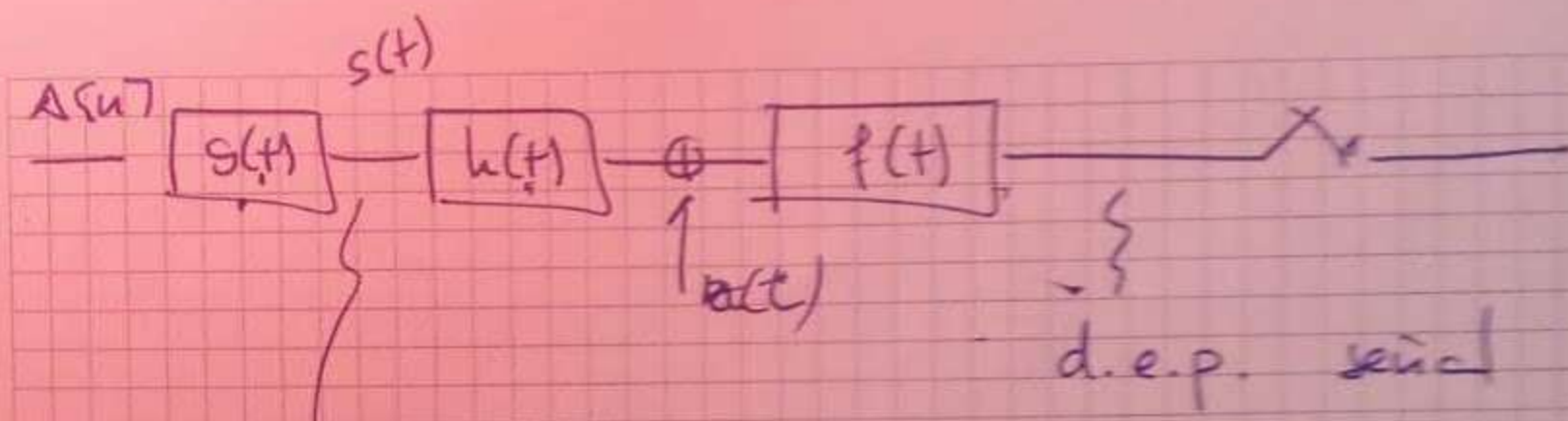
Asignatura

Nombre y Apellidos

Fecha

Curso

Grupo



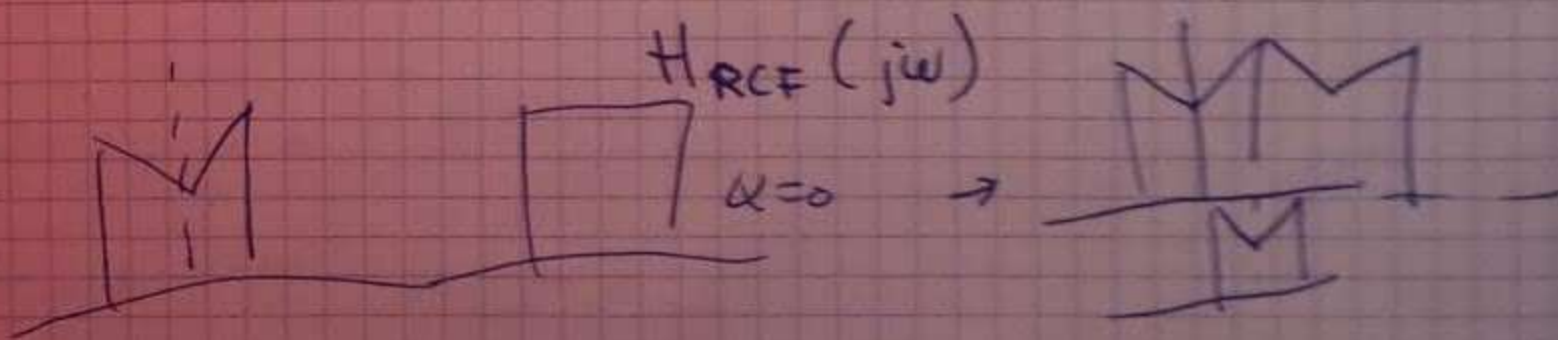
$$S_s(j\omega) \rightarrow |G(j\omega)|^2 \quad |G(j\omega) \cdot H(j\omega) \cdot F(j\omega)|^2$$

$P(j\omega)$

$$s(t) / \underline{G(j\omega)}?$$

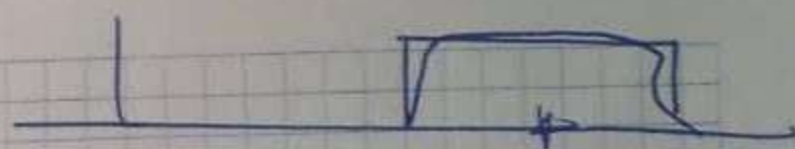
$$F(j\omega) = G^*(j\omega)$$

$$G(j\omega) \cdot H_2(j\omega) \cdot G^*(j\omega)$$



$$\sum P(j\omega + j\frac{2\pi K}{T})$$

$$W = 2\pi \cdot 150 \text{ kHz}$$

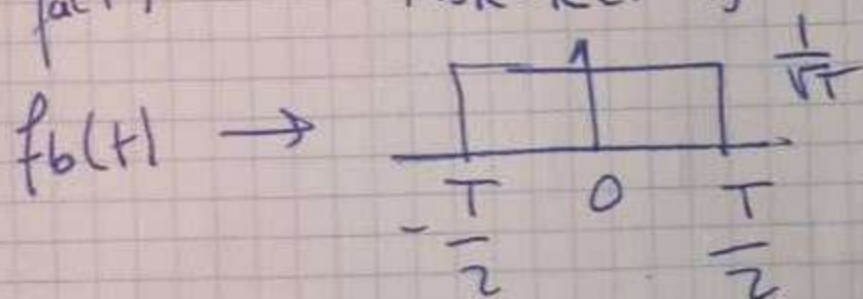


$$M=16$$

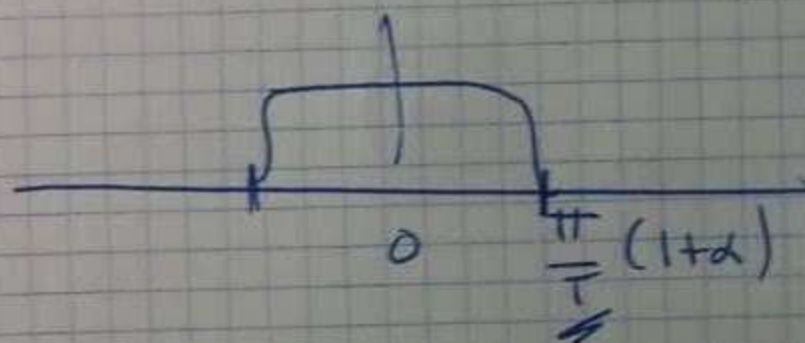
$$A[n] \rightarrow S_A(e^{j\omega}) = G$$

$$g(t) \rightarrow H_{SR-RCF}(j\omega)$$

$$f_a(t) \rightarrow H_{SR-RCF}(j\omega)$$



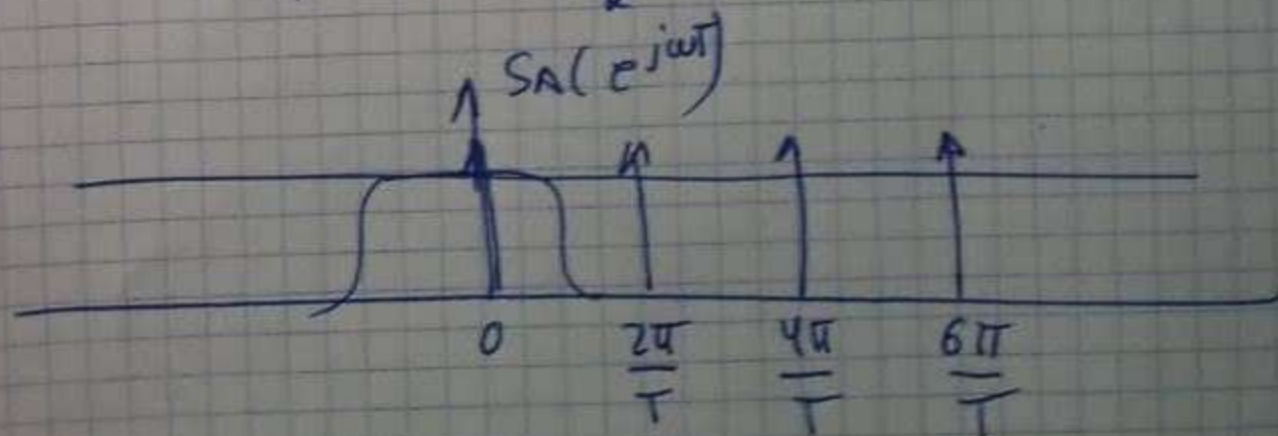
$$S_s(j\omega) = \frac{1}{T} S_A(e^{j\omega T}) |G(j\omega)|^2$$



$$\pi R_s(1+\alpha)$$

$$S_A(e^{j\omega}) = \sum_k R_A[k] \cdot e^{-j\omega k}$$

$$= A^2(1-p) + 2\pi \sum_k \delta(\omega + 2\pi k) A^2 p^2$$



$$\delta\left(\frac{\omega}{T} + 2\pi k\right)$$