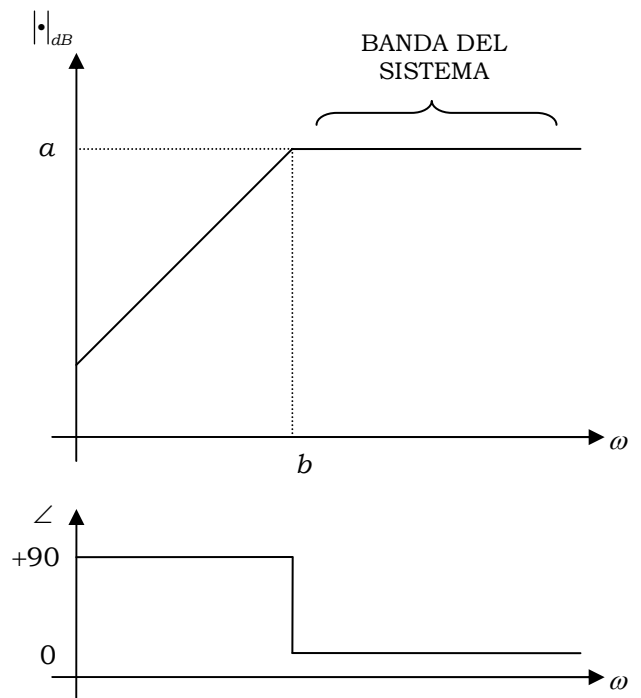


FILTRO PASSA-ALTO

$$\frac{as}{s+b}$$

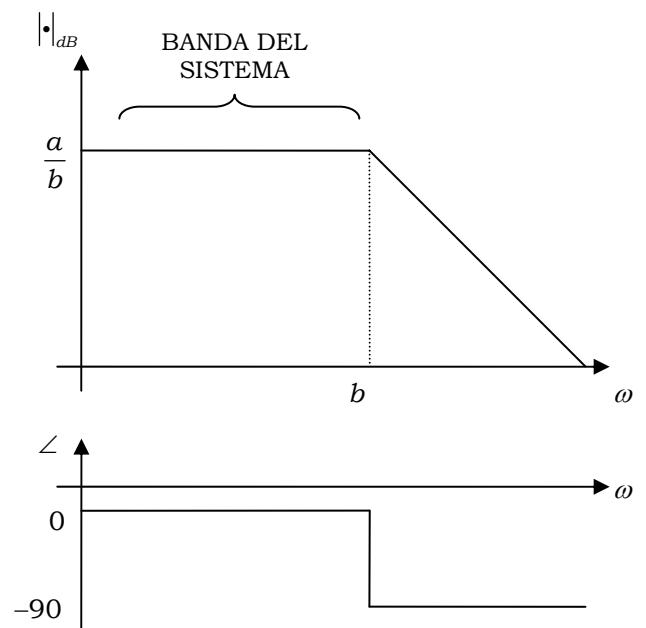
Affinché non introduca un guadagno, è necessario che: $a=1$



FILTRO PASSA-BASSO

$$\frac{a}{s+b}$$

Affinché non introduca un guadagno, è necessario che: $\frac{a}{b}=1 \rightarrow a=b$

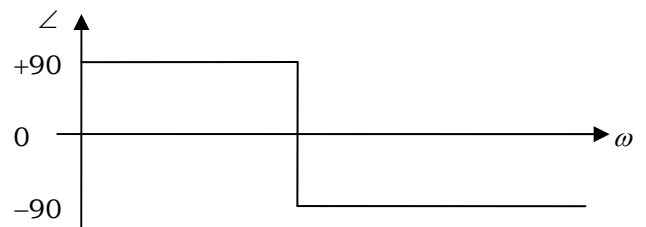
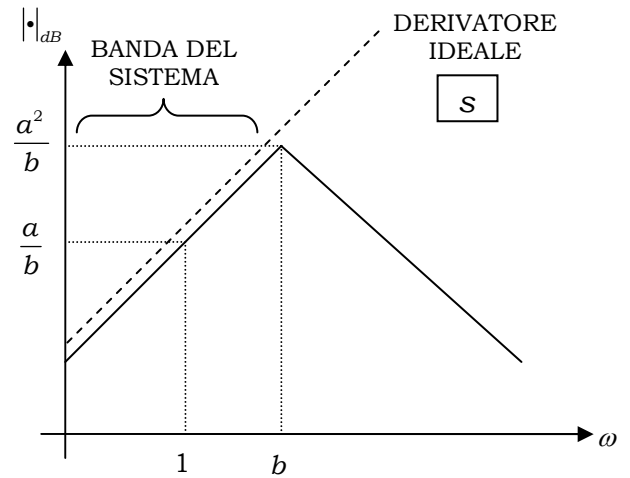


PSEUDO-DERIVATORE

$$\frac{as}{(s+b)} \quad \text{---} \quad \frac{a}{(s+b)}$$

$$\frac{a^2 s}{s^2 + 2bs + b^2}$$

Affinché derivi senza guadagno, è necessario che: $\frac{a}{b} = 1 \rightarrow a = b$



PSEUDO-INTEGRATORE

$$\frac{as}{(s+b)} \quad \text{---} \quad \frac{a}{(s+b)}$$

$$\frac{a^2 s}{s^2 + 2bs + b^2}$$

Affinché integri senza guadagno, è necessario che: $a = 1$

