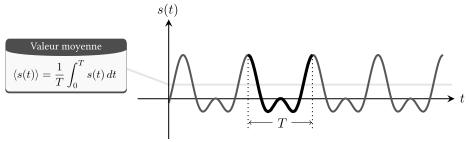
## Signaux périodiques

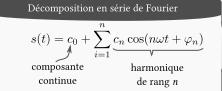


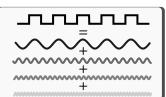




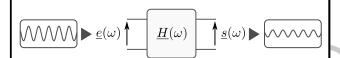
$$f = \frac{1}{T}$$
 fréquence

$$\omega = 2\pi f$$
 pulsation





### fonction de transfert



Fonction de transfert harmonique

$$\underline{H}(\omega) = \frac{\underline{s}(\omega)}{\underline{e}(\omega)}$$

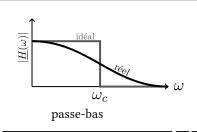
Gain 
$$G = |\underline{H}(\omega)|$$

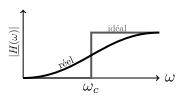
$$\varphi=\arg(\underline{H}(\omega))$$

Gain en décibels  $G_{dB} = 20 \log(G)$ 

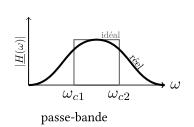
$$G_{dB} = 20 \log(G)$$

# Types de filtres



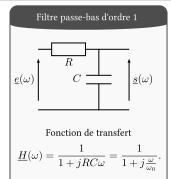


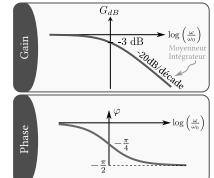
passe-haut



# Filtrage

## filtre passe-bas





#### **Autres filtres**

