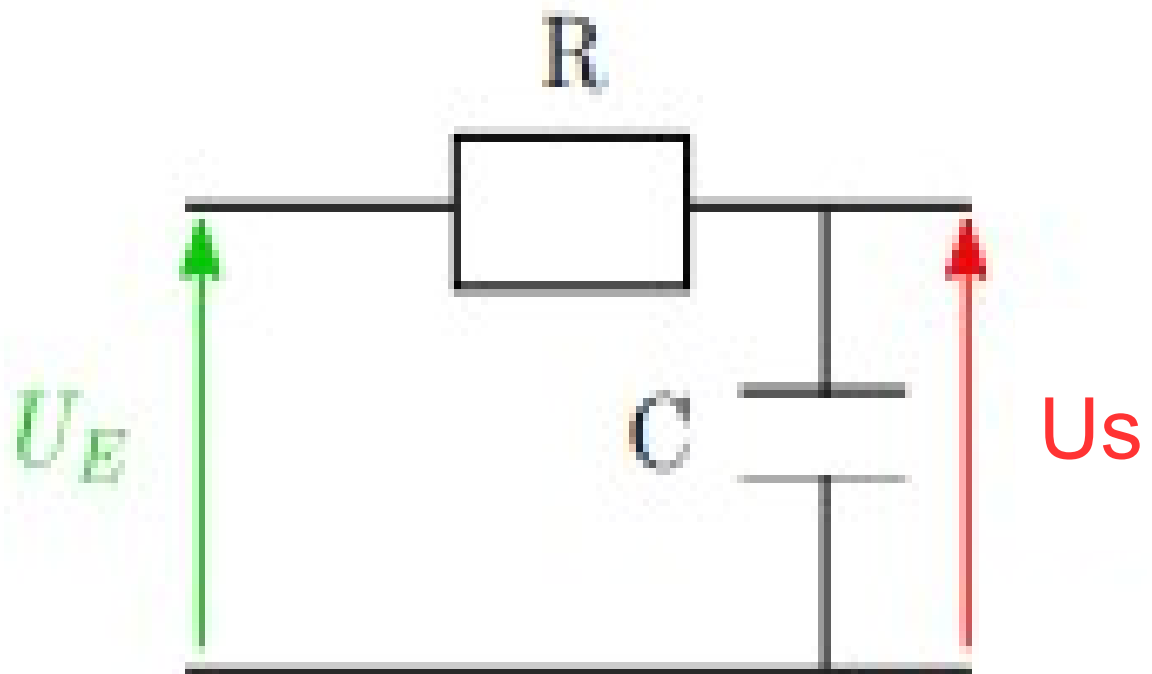
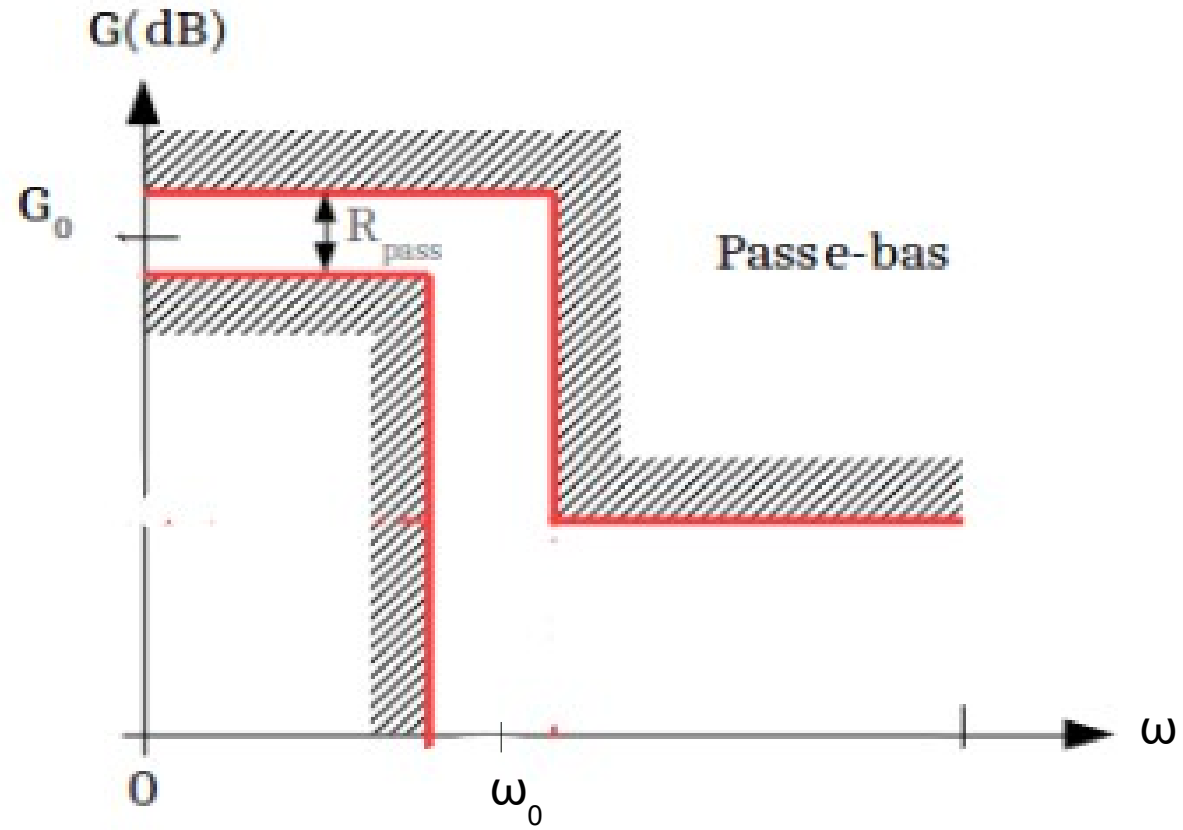


# Filtrages

# Circuit RC



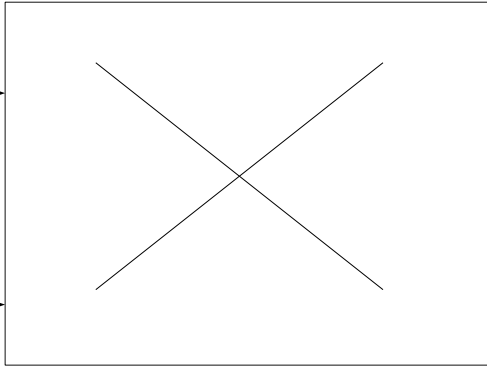
# Gabarit d'un filtre passe-bas



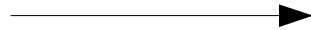
# Détection synchrone

**Multiplieur**

$$S_m = A_m \cos(2\pi f_m t + \phi)$$

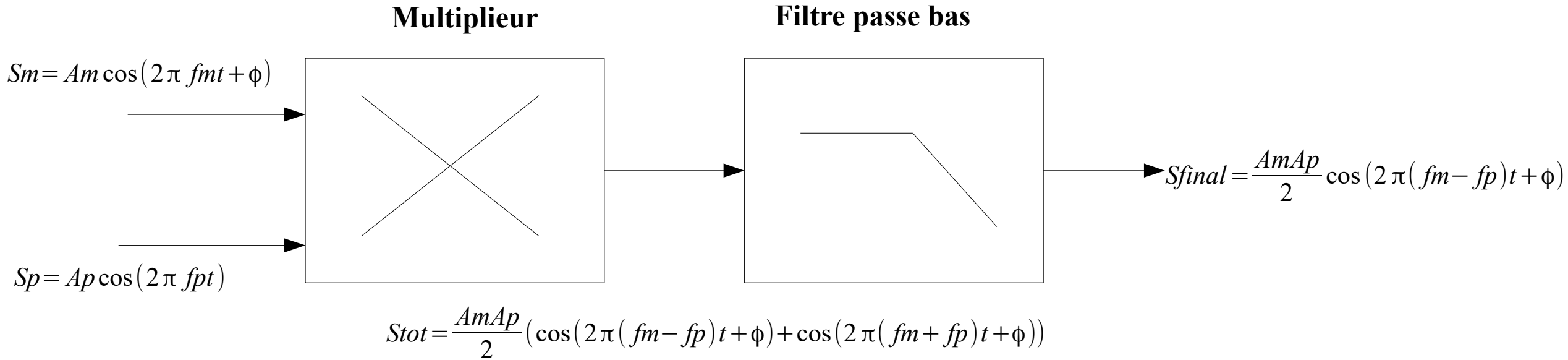


$$S_p = A_p \cos(2\pi f_p t)$$

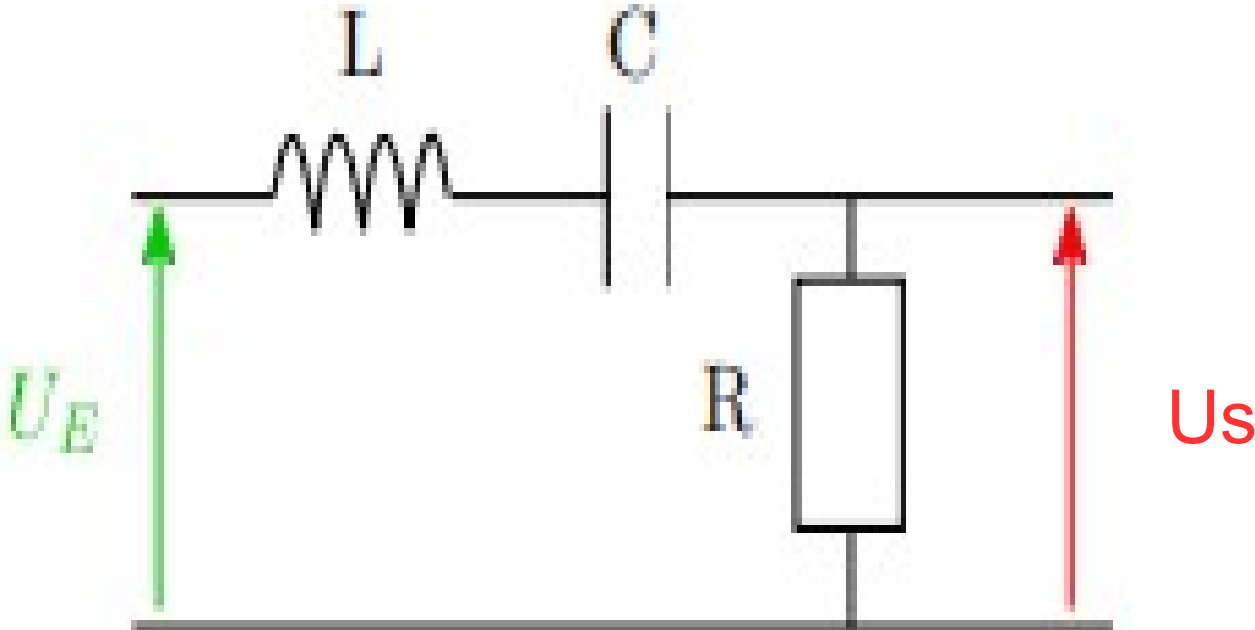


$$S_{tot} = \frac{A_m A_p}{2} (\cos(2\pi(f_m - f_p)t + \phi) + \cos(2\pi(f_m + f_p)t + \phi))$$

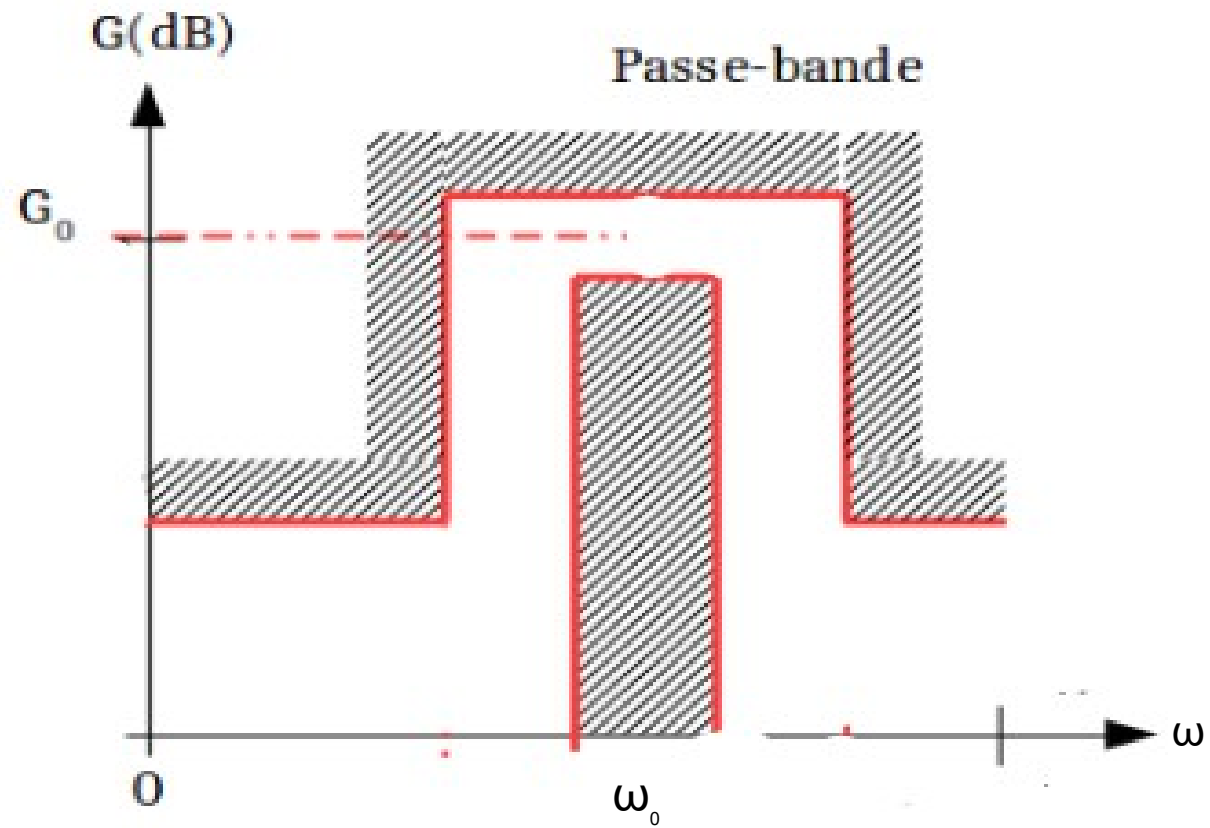
# Détection synchrone

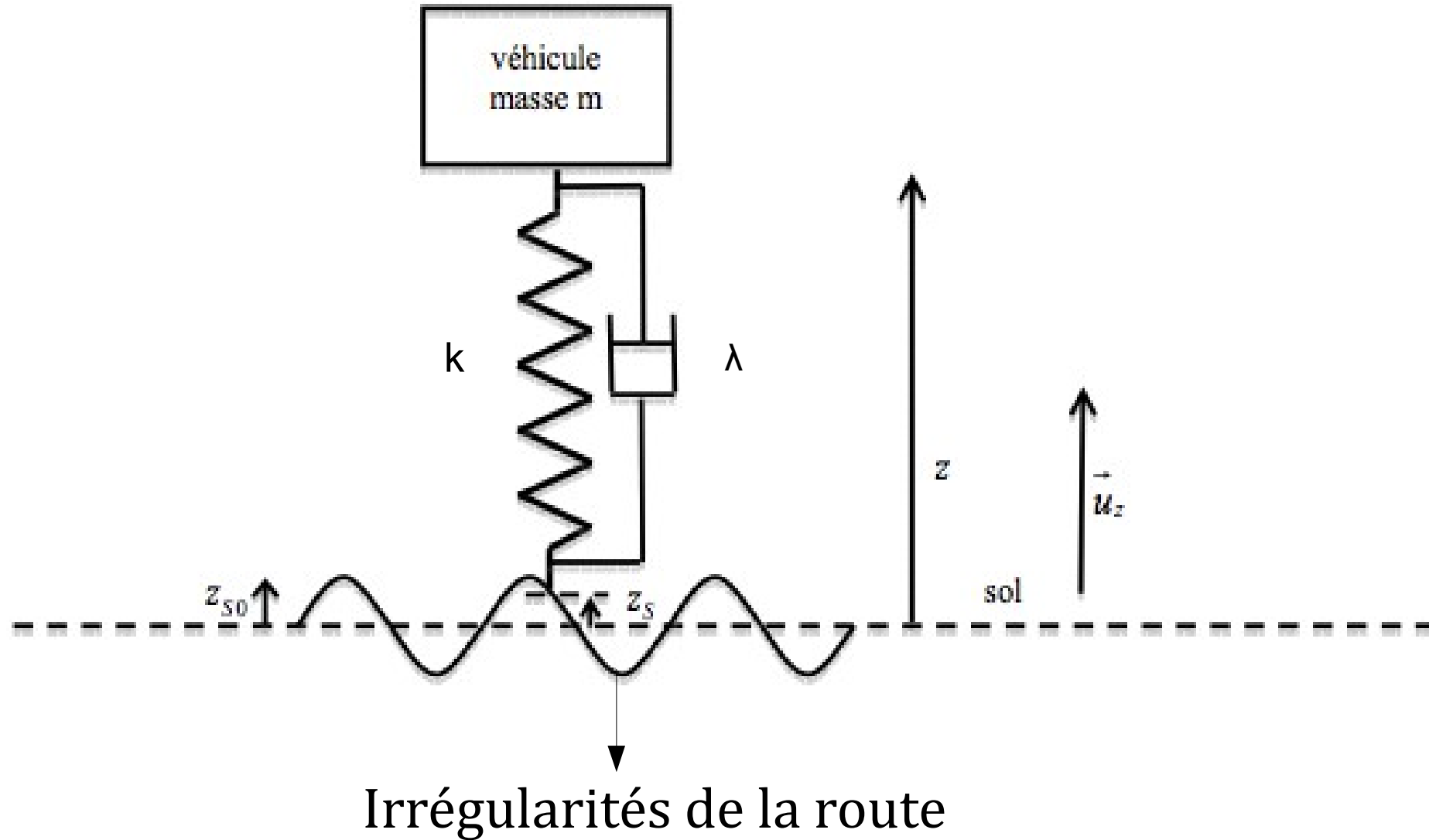


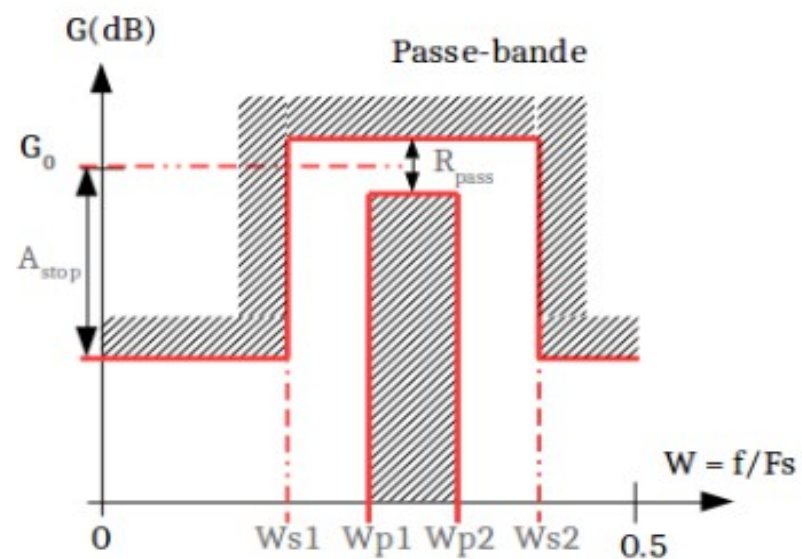
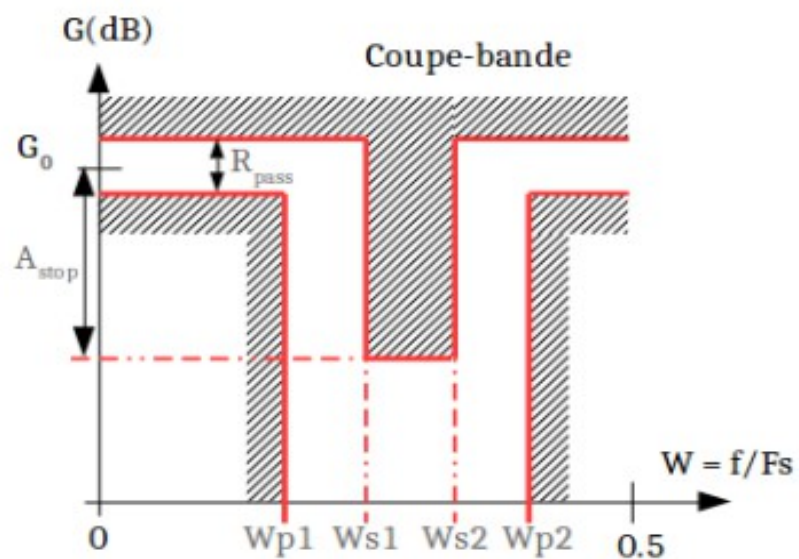
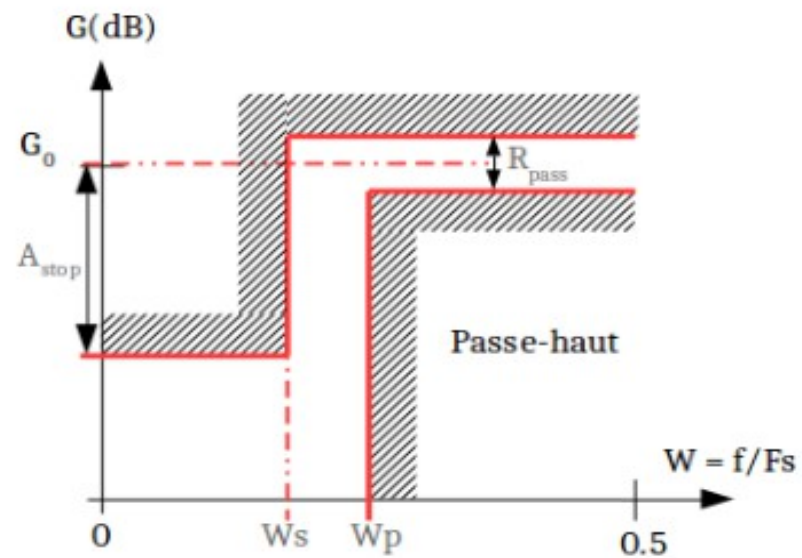
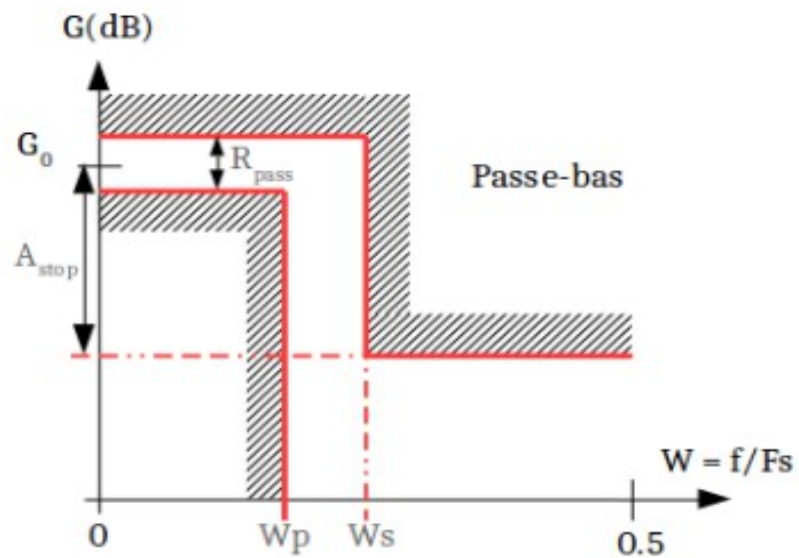
Circuit RLC

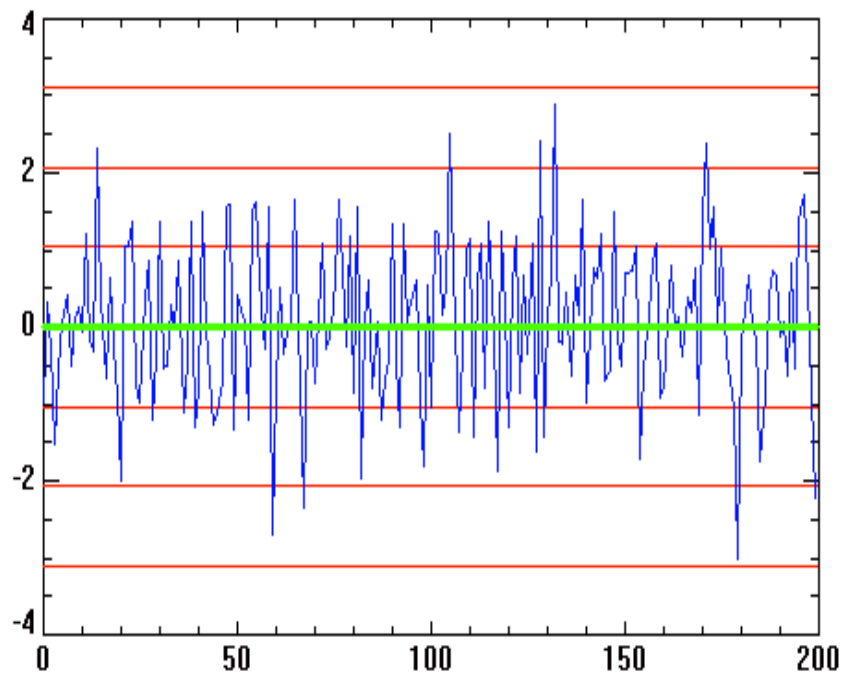


## Gabarit d'un filtre passe-bande

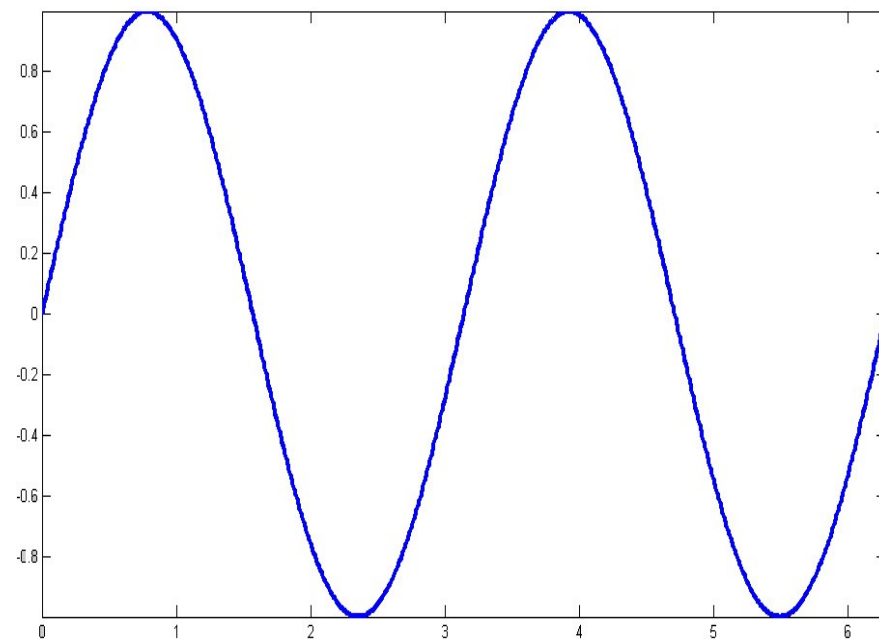








Réception



FILTRAGE