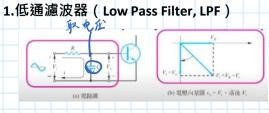
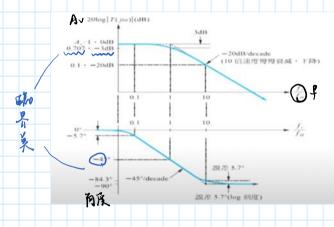
濾波器 2020年10月26日

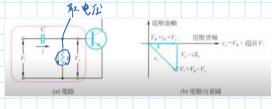


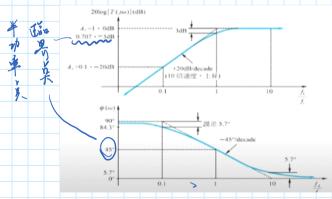




$$\Rightarrow$$
 高頻截止頻率: $f_H = \frac{1}{2\pi RC}$ Hz ,在半功率點上:
$$\begin{cases} (1)f_H = \frac{1}{2\pi RC}$$
 Hz , $(2)V_o$ 落後45° $(3)R = X_C$, $(4)\frac{V_o}{V_i} = \frac{1}{\sqrt{2}} = 0.707 \end{cases}$

2.高通濾波器 (High Pass Filter, HPF)





在半功率點上:
$$\begin{cases} (1) f_L = \frac{1}{2\pi RC} \text{Hz}, (2) V_o 超前 V_i 45^{\circ} \\ (3) R = X_C, (4) \frac{V_o}{V_i} = \frac{1}{\sqrt{2}} = 0.707 \end{cases}$$

3.帶通濾波器 (band pass filter, BPF)

