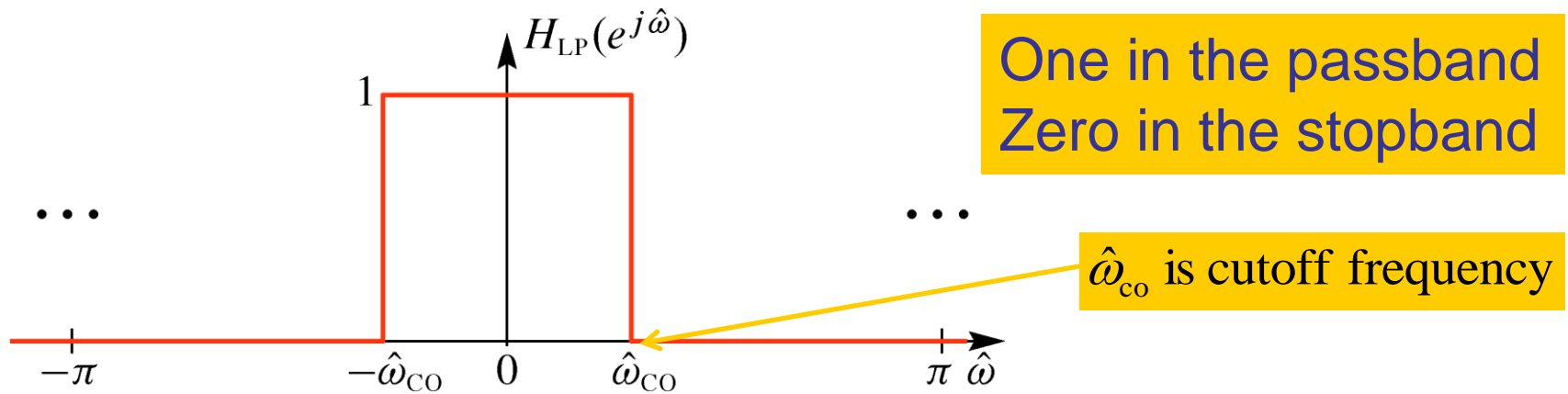


Hands-on (submission requirements)

- MATLAB source codes & report
- Result plots, and your comments on the results must be presented in your report.

Hands-on Guide

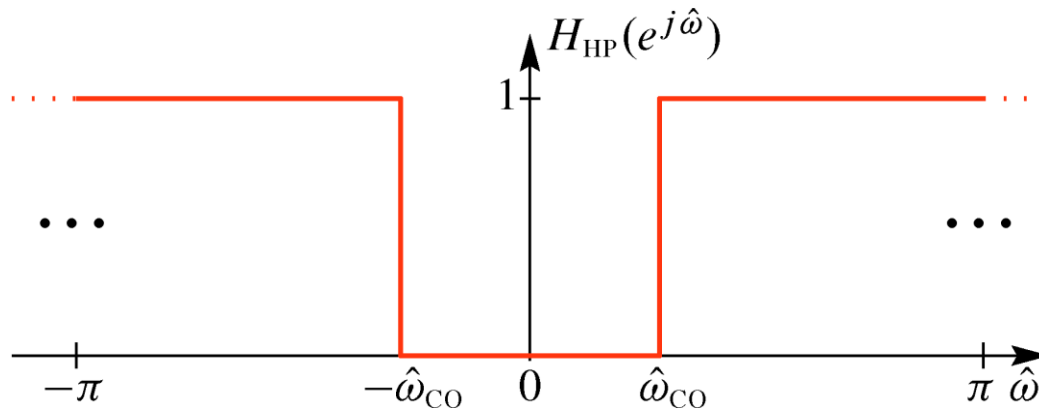
- IDEAL LowPass Filter (LPF)



$$H_{LP}(e^{j\hat{\omega}}) = \begin{cases} 1, & |\hat{\omega}| \leq \hat{\omega}_{co} \\ 0, & \hat{\omega}_{co} < |\hat{\omega}| \leq \pi \end{cases}$$

Hands-on Guide

- IDEAL LowPass Filter (LPF)



One in the passband
Zero in the stopband

$$H_{\text{HP}}(e^{j\hat{\omega}}) = \begin{cases} 0, & |\hat{\omega}| \leq \hat{\omega}_{\text{co}} \\ 1, & \hat{\omega}_{\text{co}} < |\hat{\omega}| \leq \pi \end{cases} = 1 - H_{\text{LP}}(e^{j\hat{\omega}})$$