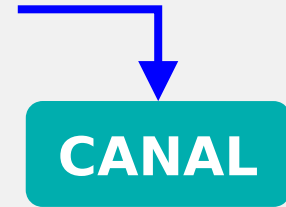
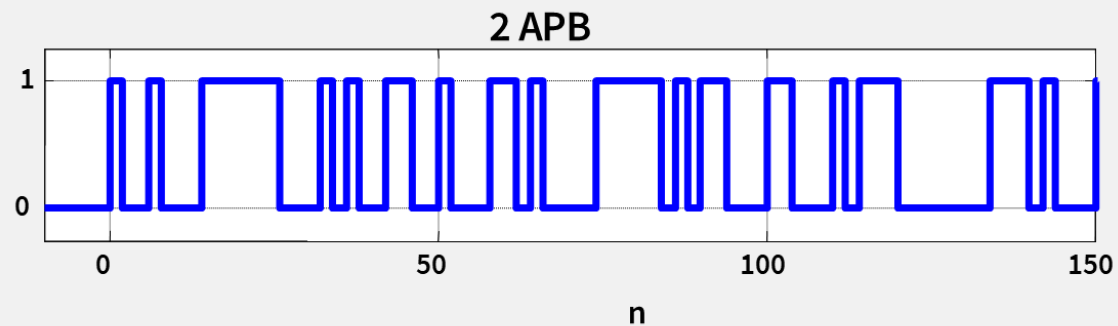
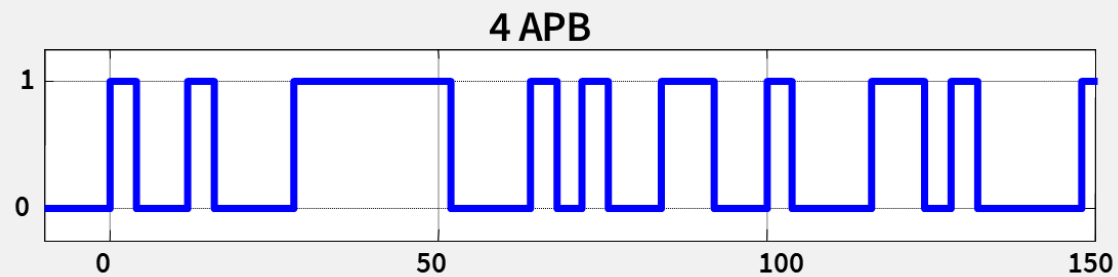
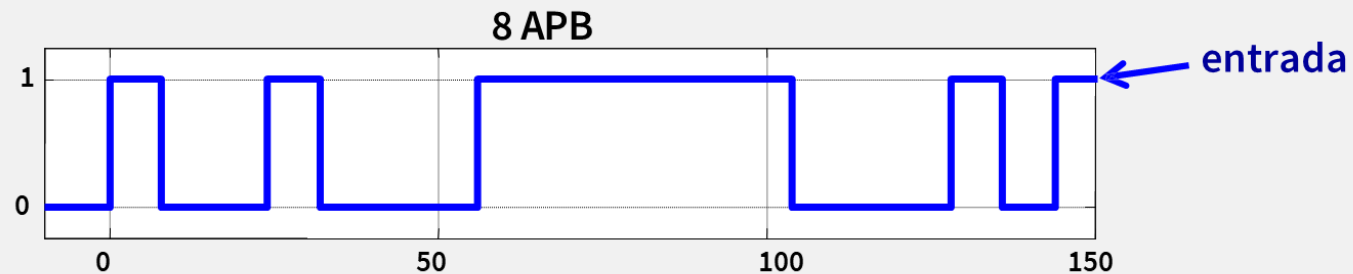


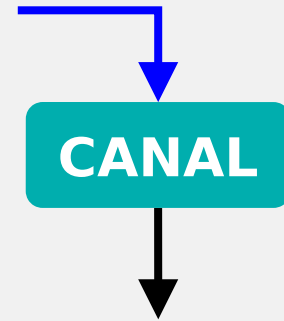
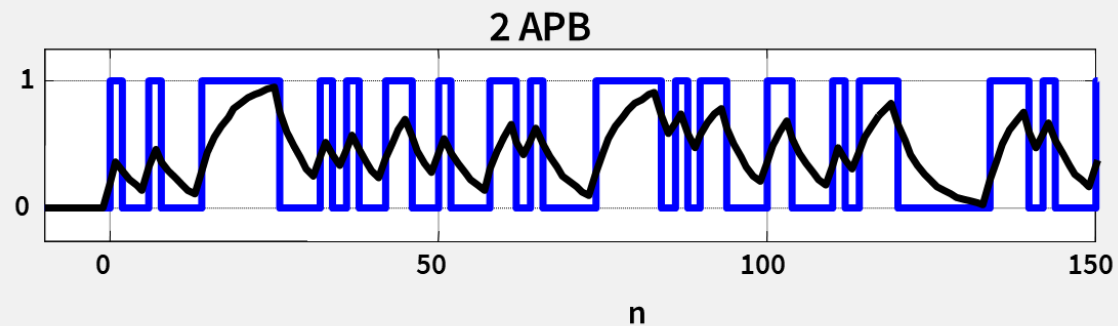
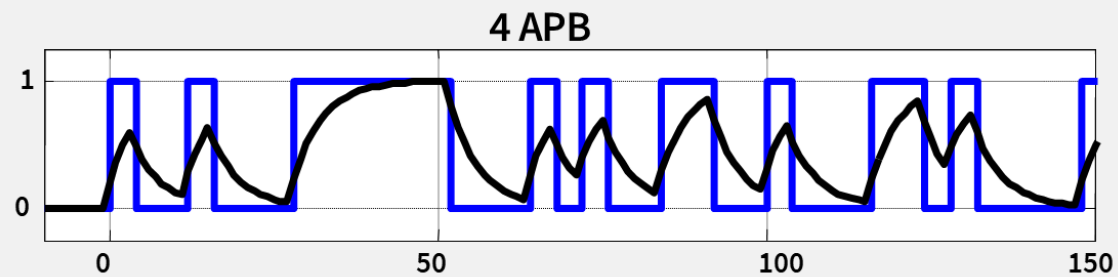
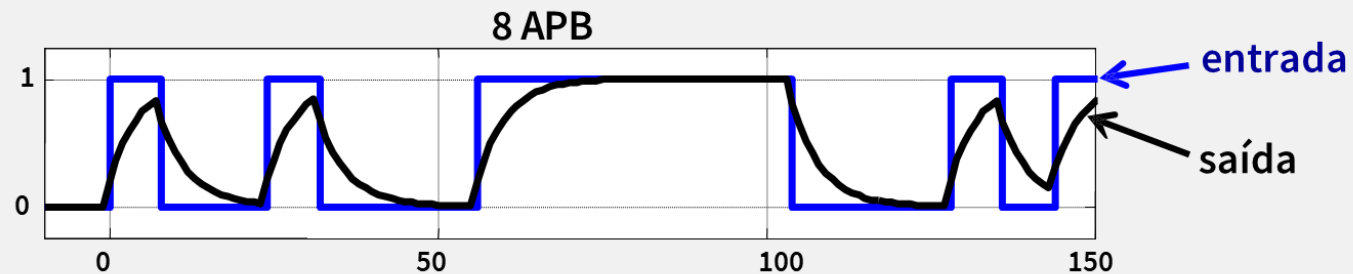
INTRODUÇÃO AOS SISTEMAS DE COMUNICAÇÃO

Equalizando o Canal

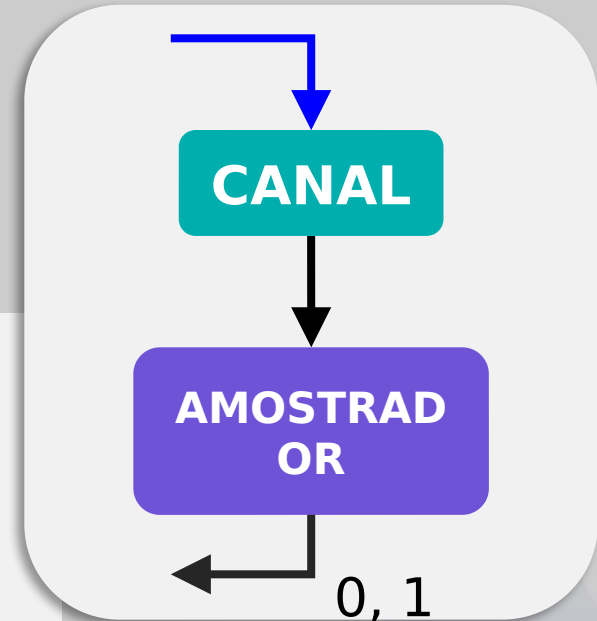
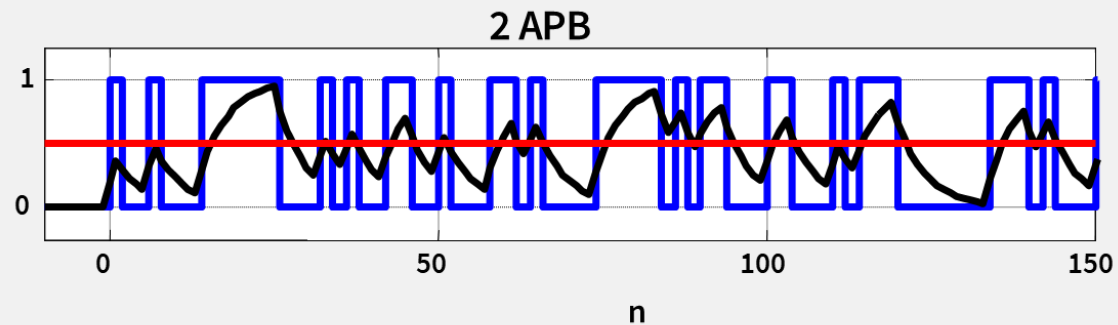
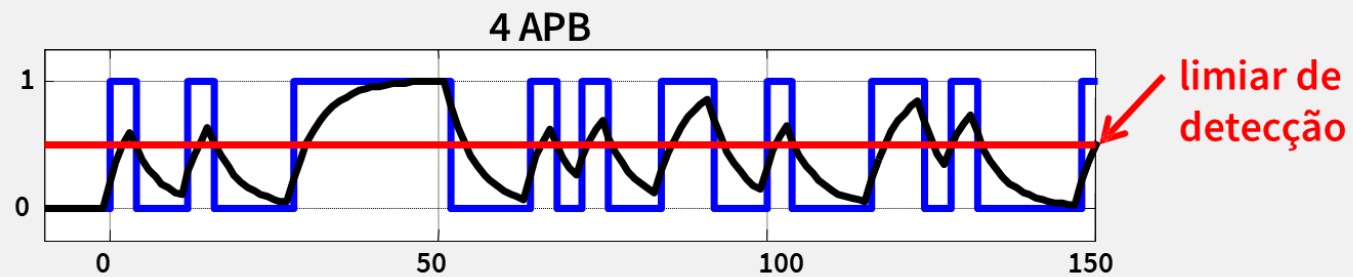
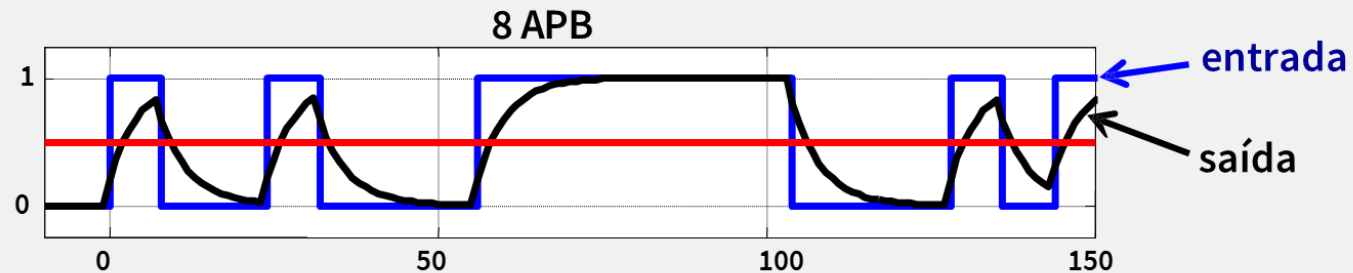
SEQUÊNCIA DE BITS



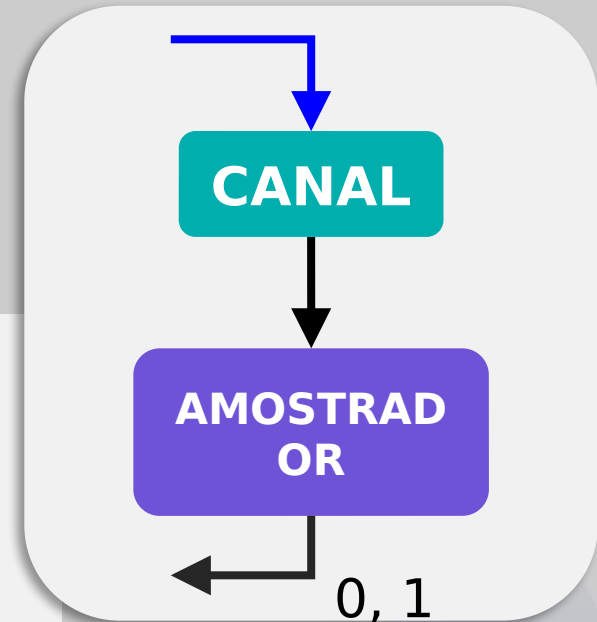
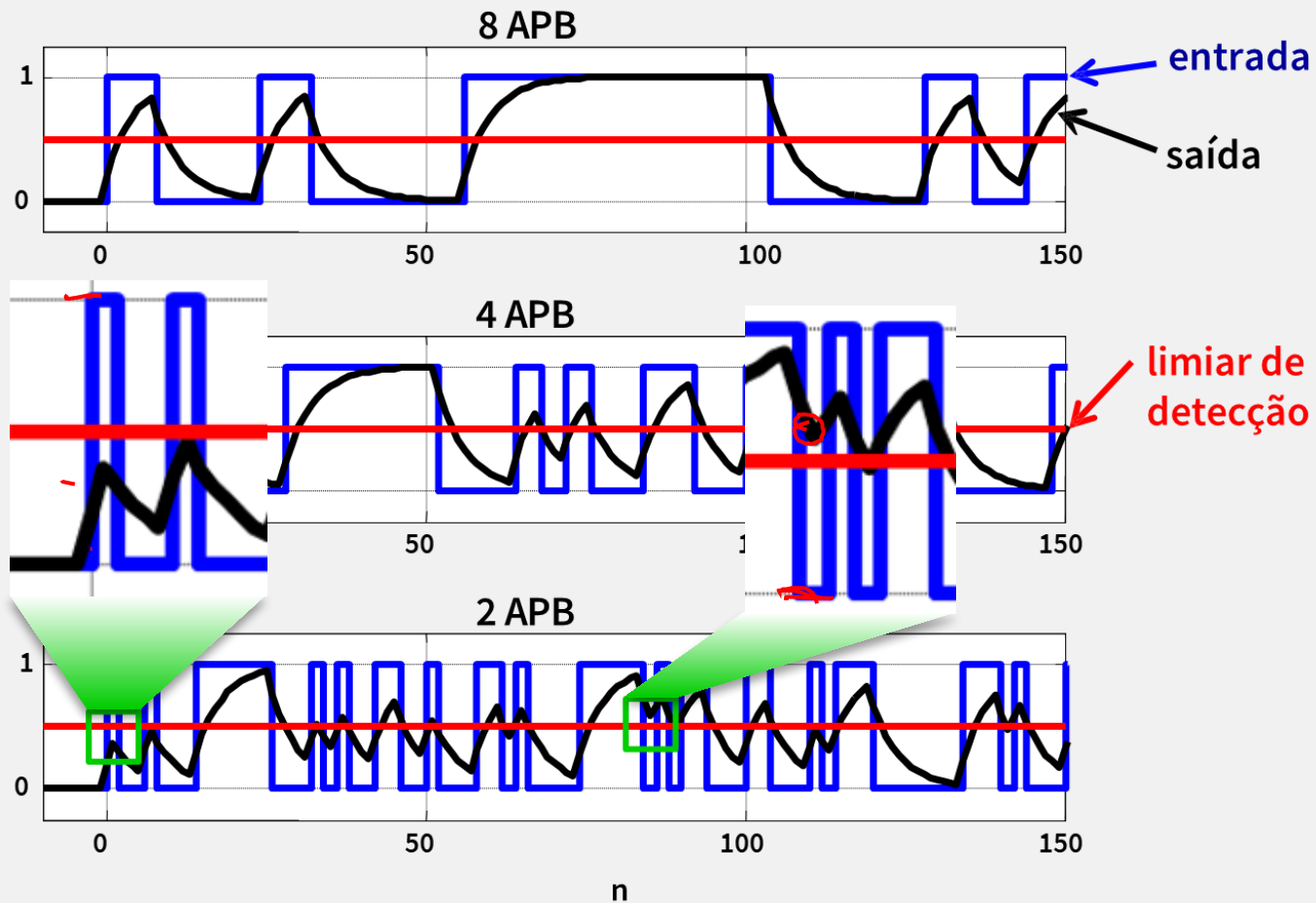
SEQUÊNCIA DE BITS



SEQUÊNCIA DE BITS



SEQUÊNCIA DE BITS



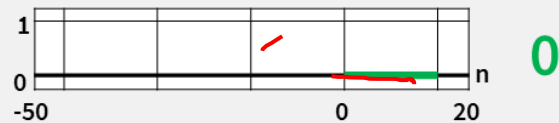
INTERFERÊNCIA INTERSIMBÓLICA

tempo de bit = 15 APB

- entrada
- saída

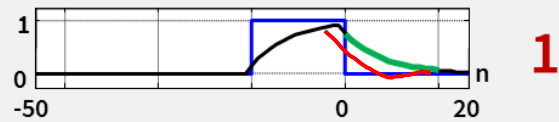
nibble

0000



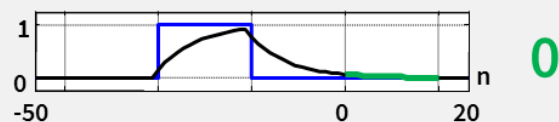
0

0010



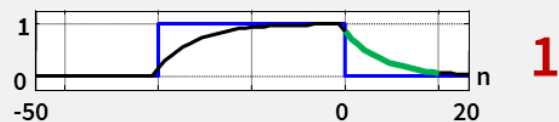
1

0100



0

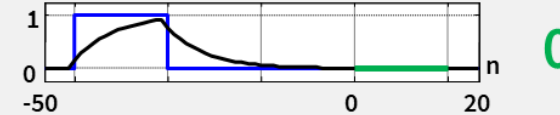
0110



1

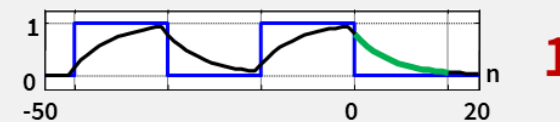
nibble

1000



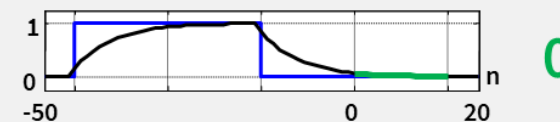
C

1010



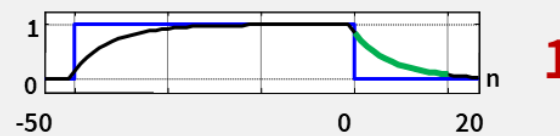
1

1100



C

1110



1

DIAGRAMA DE OLHO



DIAGRAMA DE OLHO

Resposta a uma sequência aleatória de bit (10 APB)

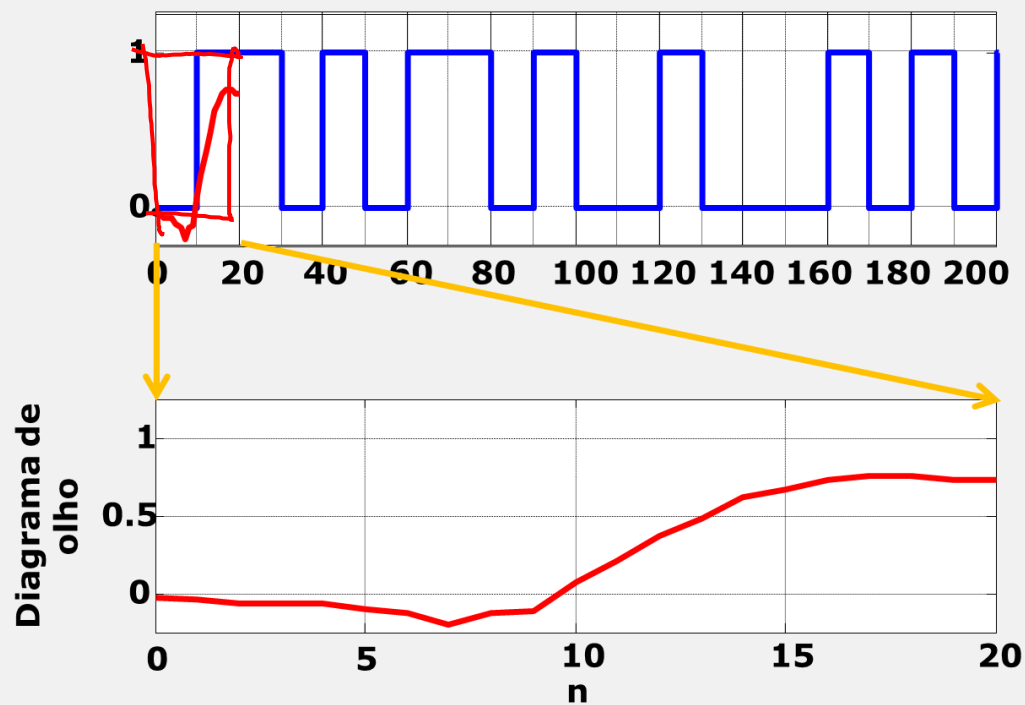


DIAGRAMA DE OLHO

Resposta a uma sequência aleatória de bit (10 APB)

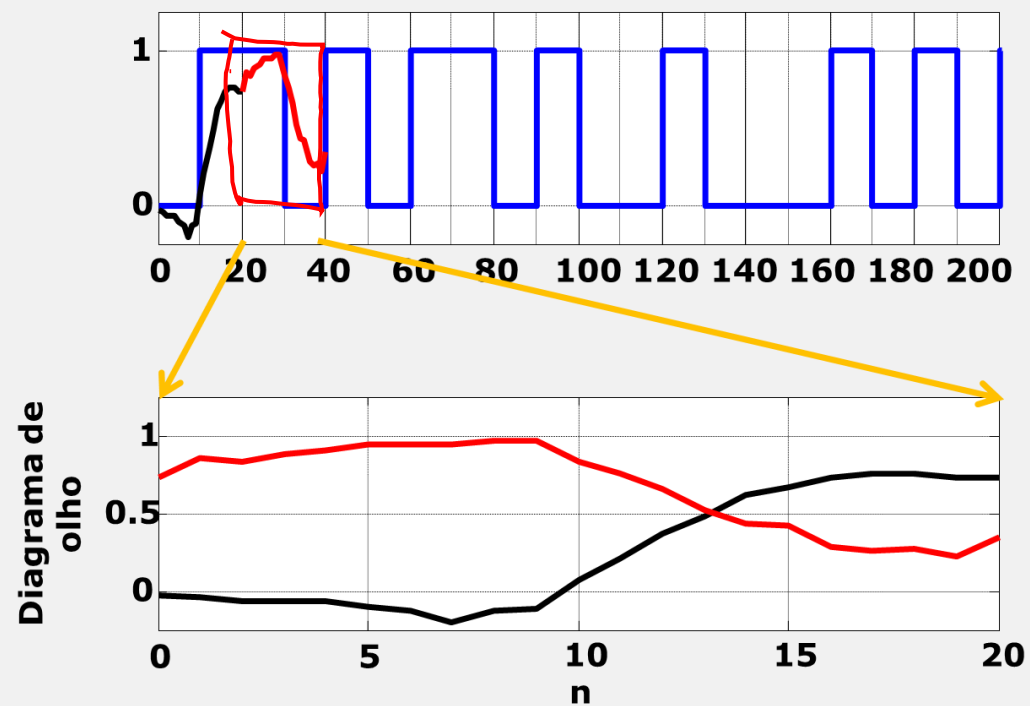


DIAGRAMA DE OLHO

Resposta a uma sequência aleatória de bit (10 APB)

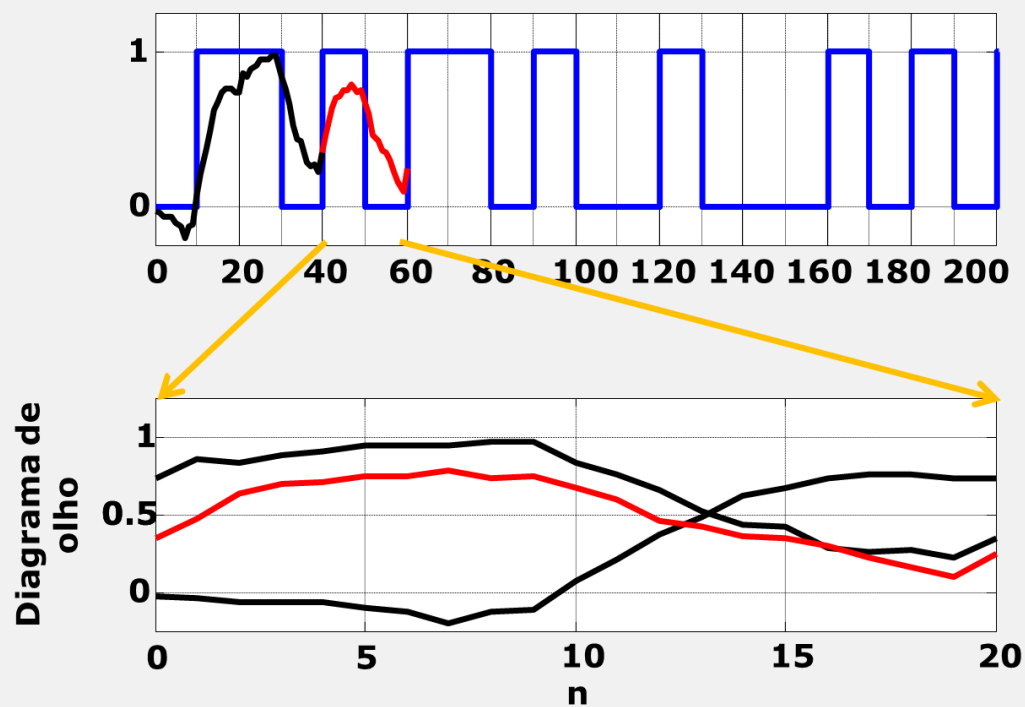


DIAGRAMA DE OLHO

Resposta a uma sequência aleatória de bit (10 APB)

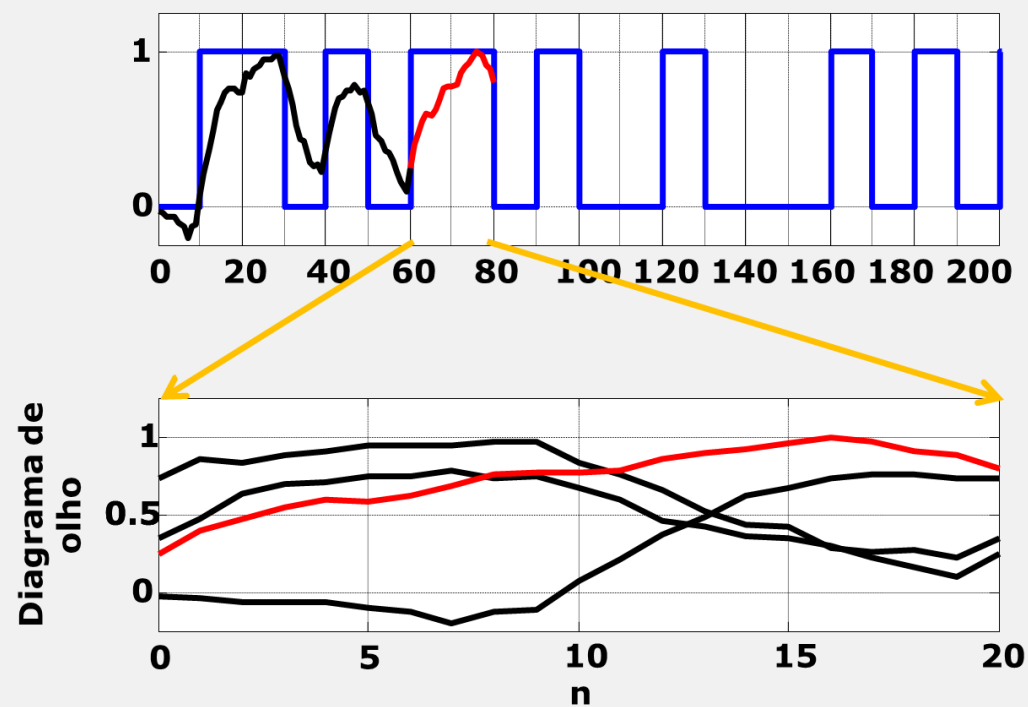


DIAGRAMA DE OLHO

Resposta a uma sequência aleatória de bit (10 APB)

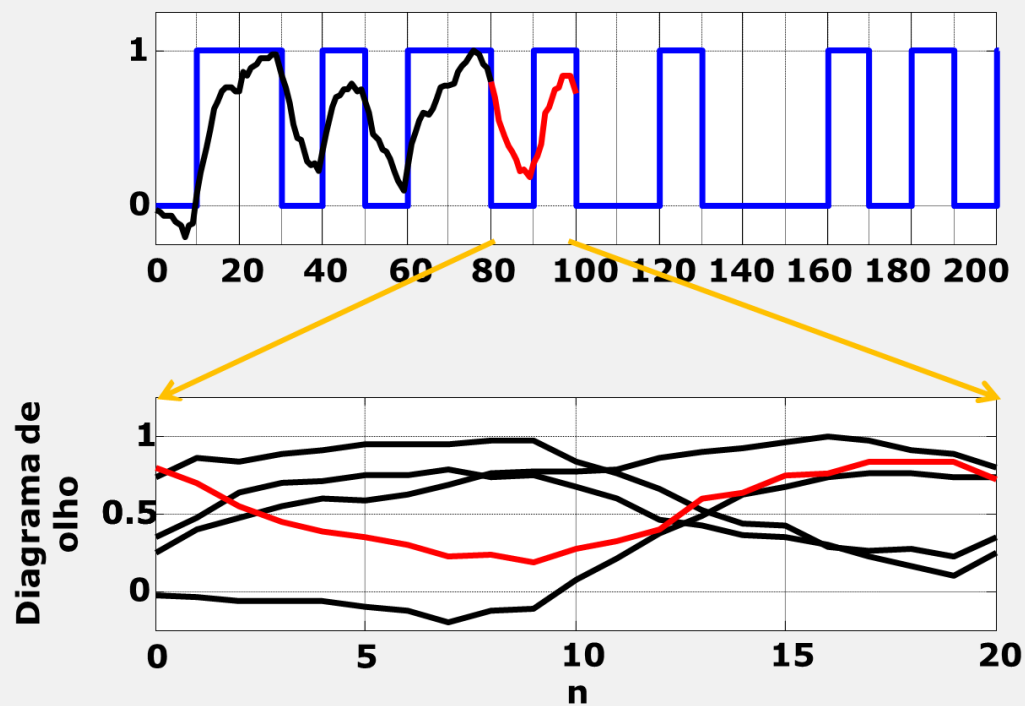


DIAGRAMA DE OLHO

Resposta a uma sequência aleatória de bit (10 APB)

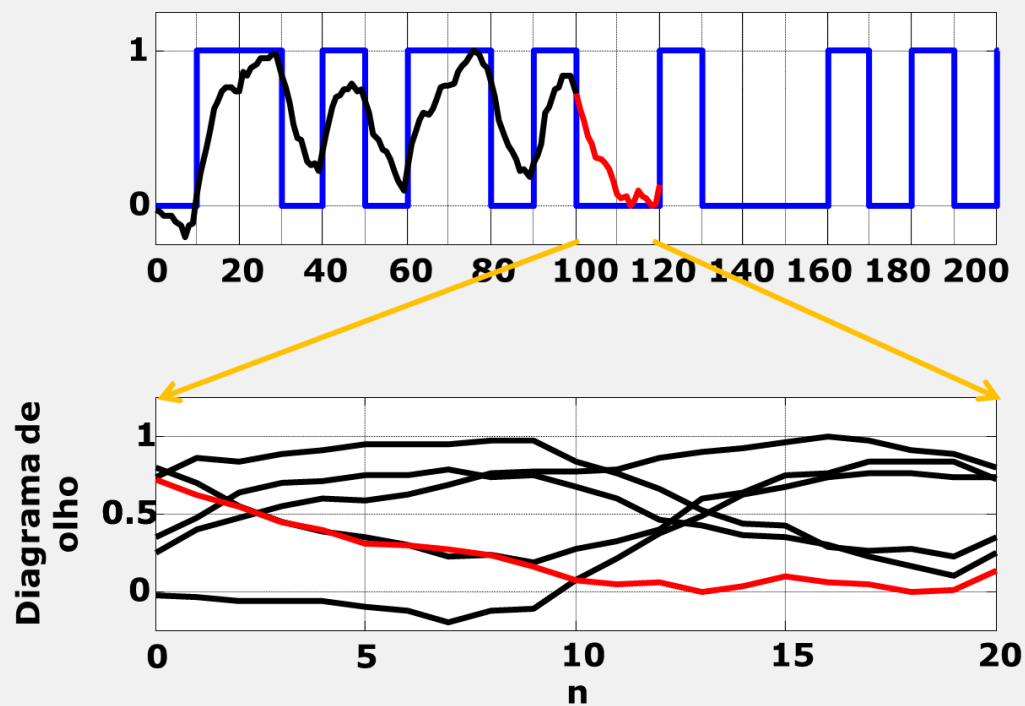


DIAGRAMA DE OLHO

Resposta a uma sequência aleatória de bit (10 APB)

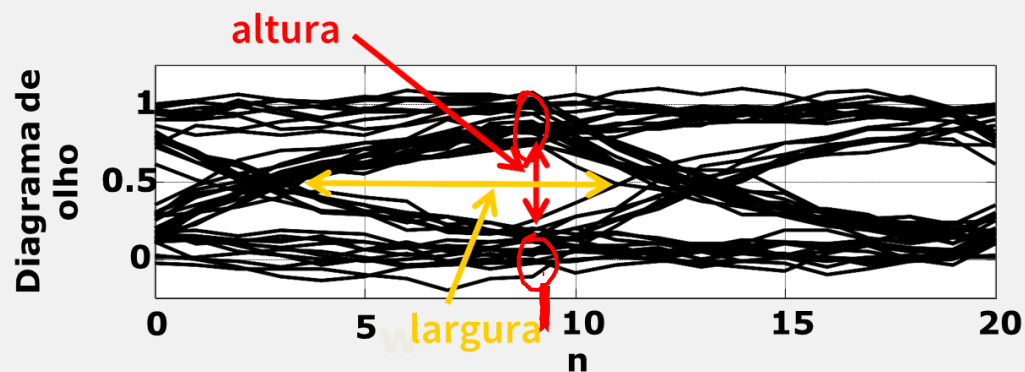
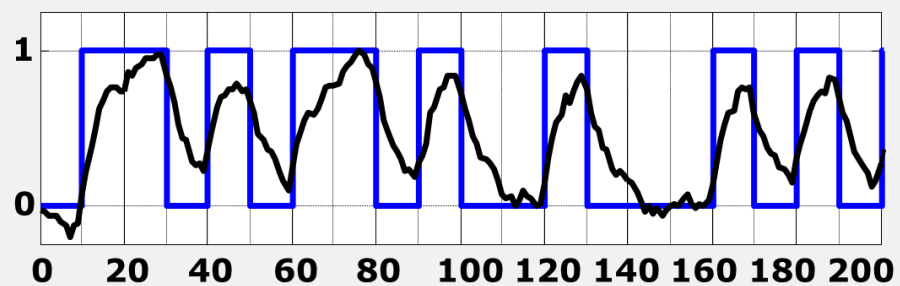
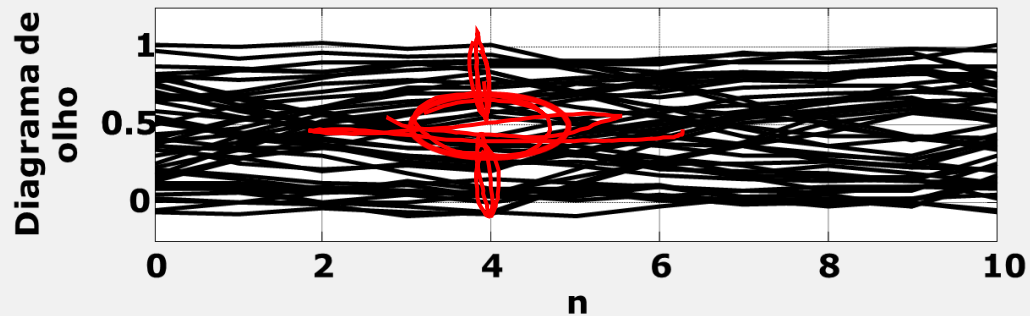
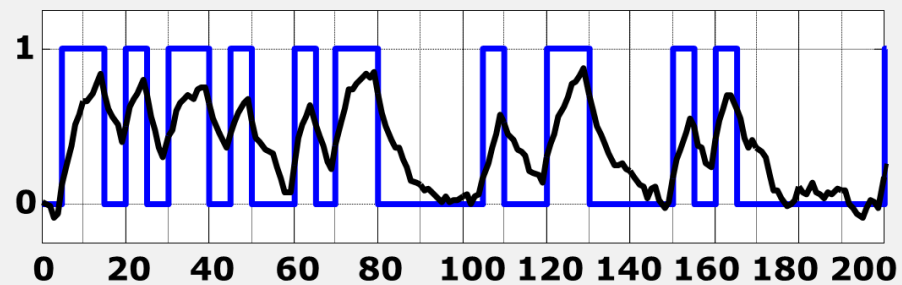
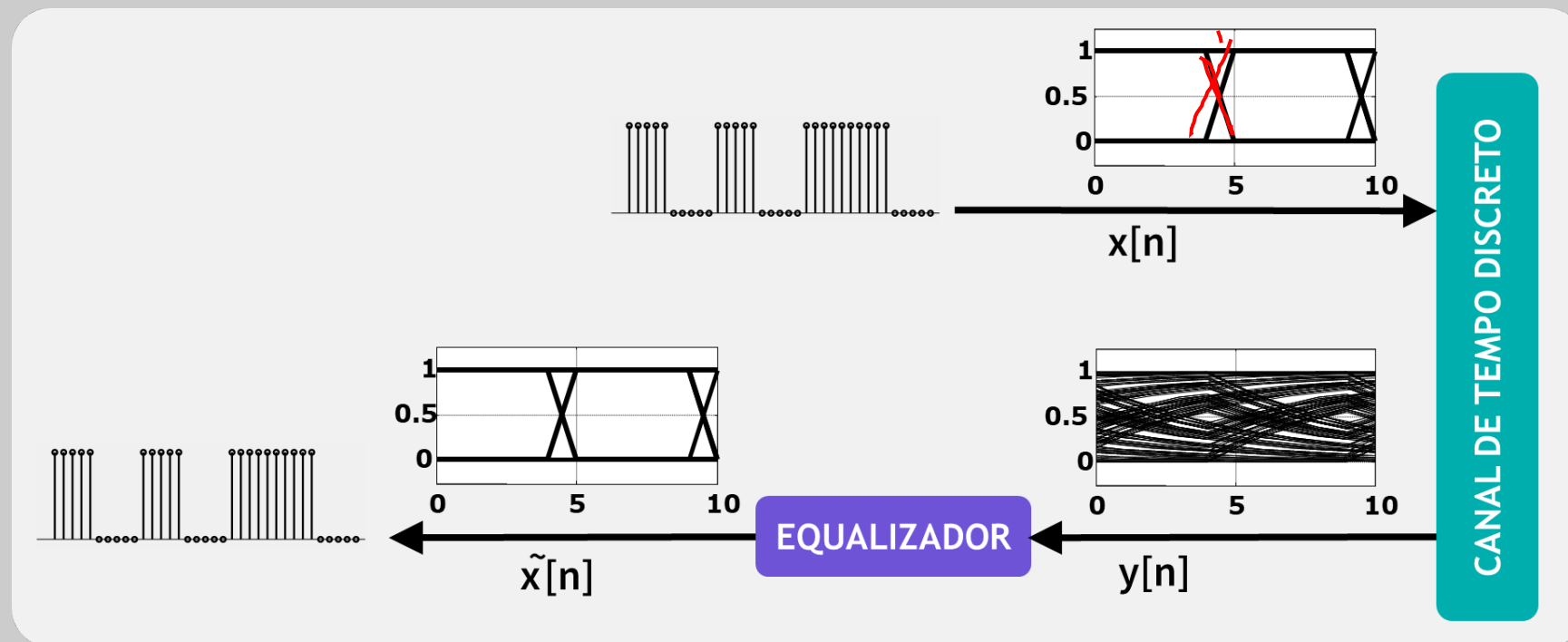


DIAGRAMA DE OLHO

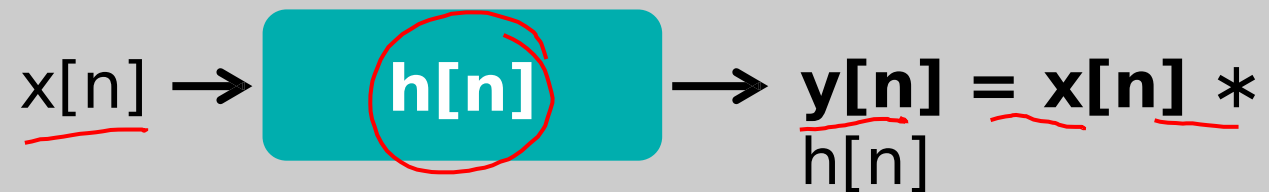
Resposta a uma sequência aleatória de bit (5 APB)



EQUALIZADOR



EQUALIZADOR



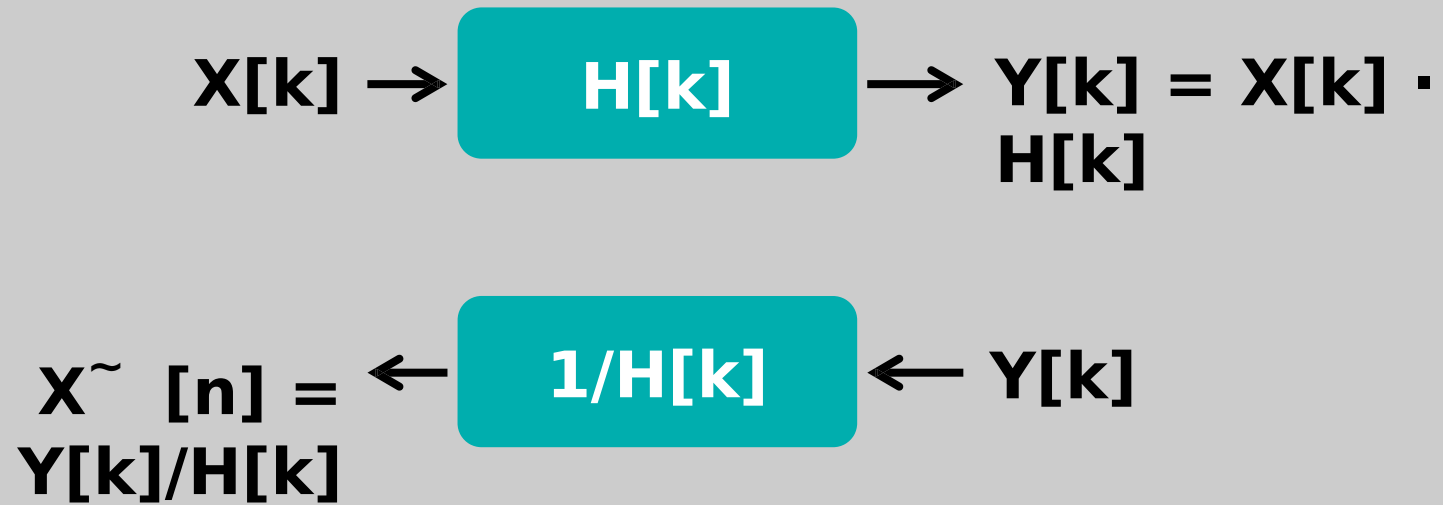
EQUALIZADOR

Transformada Discreta de Fourier

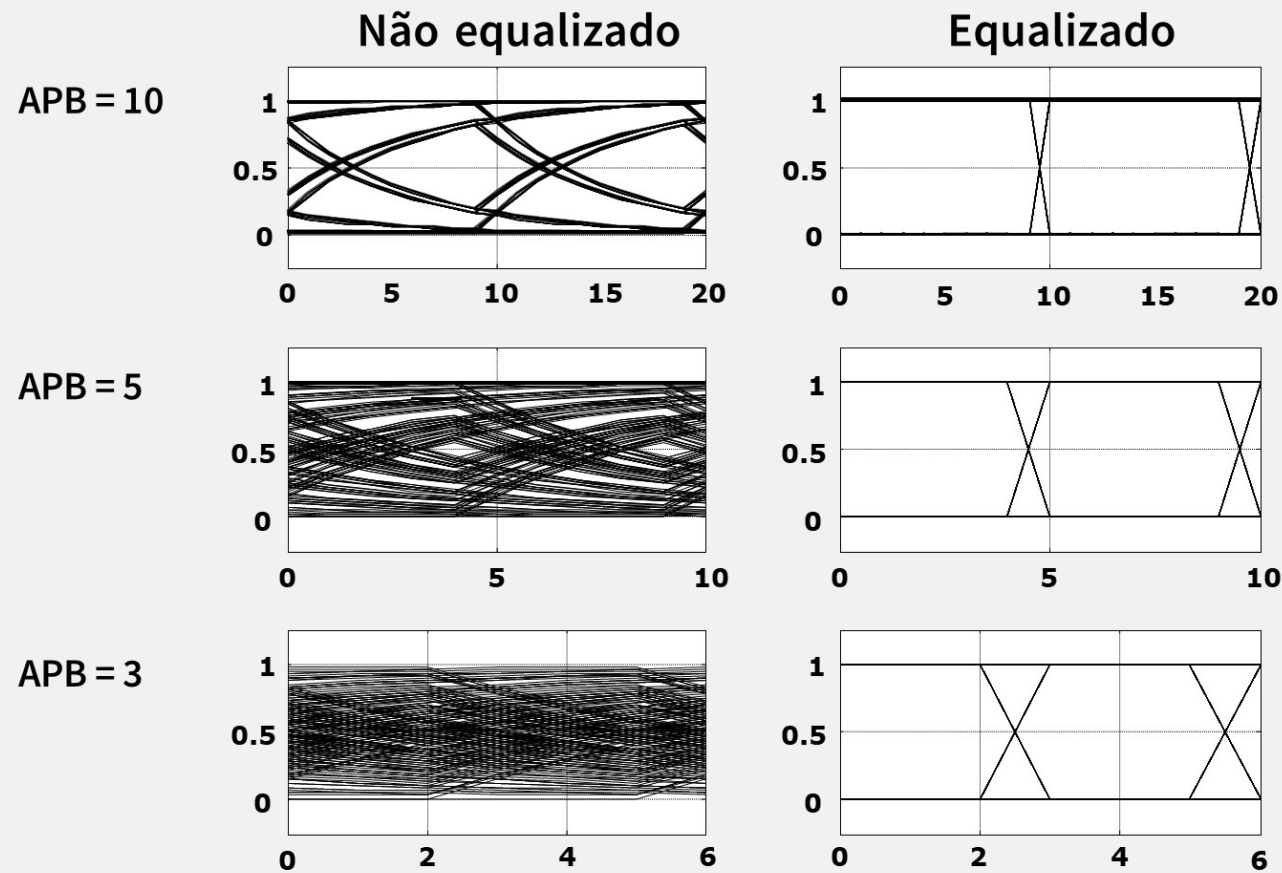
$$\underline{X[k]} \rightarrow \boxed{\underline{H[k]}} \rightarrow \frac{Y[k]}{H[k]} = \underline{X[k]} \cdot$$

$$\tilde{X}[k] = ? \leftarrow \boxed{?} \leftarrow Y[k]$$

EQUALIZADOR



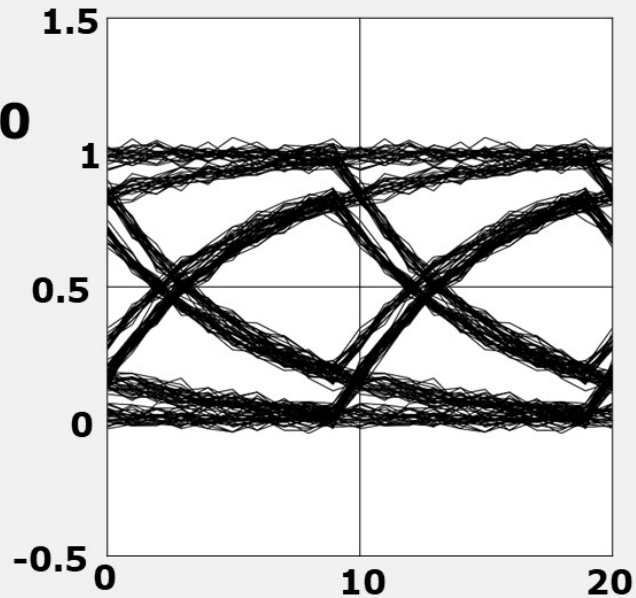
EXEMPLO: FRF CONHECIDA



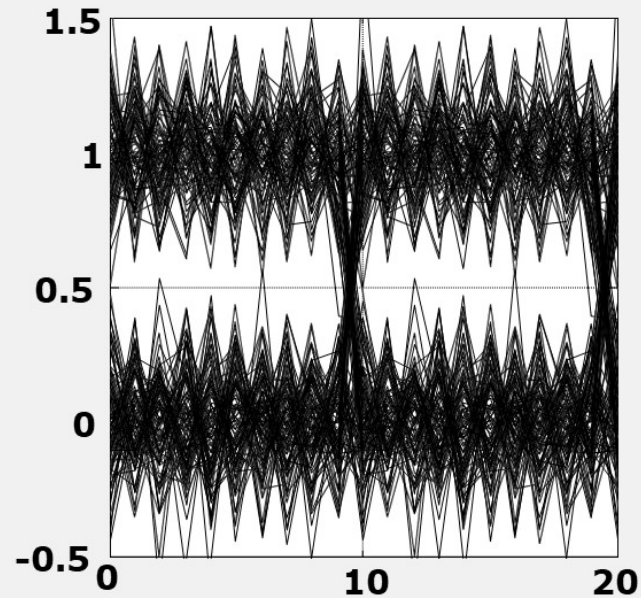
EQUALIZAÇÃO: **RUÍDO ADITIVO**

APB = 10

Não equalizado



Equalizado



INTRODUÇÃO AOS SISTEMAS DE COMUNICAÇÃO

Equalizando o Canal