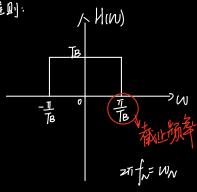
是否存在无ISI信输 (RB·码方速率、Demox 最大数据传输率)

RB > RBmax.

汝存在 ISI

De < Remax,19不满足Re=Remax,也可能有ISI

奈對特第一准则:



正义 RB= TB = 2 fN (Baud) (无ISI信输 max数据学)

无码间并抗· RB < RBmax

7-12 设基带传输系统的发送滤波器、信道及接收滤波器组成的总特性 $H(\omega)$ 如图 E7-3 所示,若要求

(a)
$$RB = \frac{2}{T}$$
 (band)
 $fN = \frac{1}{2T} = \frac{1}{2T}$ (H2)
 $RBmx = 2fN = \frac{1}{T}$

RB > RBMOX 有ISI

(b)
$$RB = \frac{2}{T} Baud$$

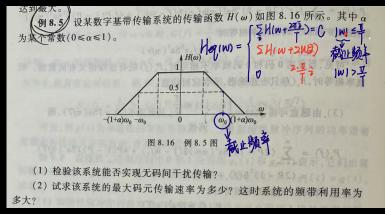
$$f_N = \frac{3T}{T \cdot 2T} = \frac{3}{2T}$$

$$RB = \frac{2}{5} RB max = \frac{3}{T}$$

$$RB = \frac{2}{5} RB max = \frac{3}{T}$$

(c)
$$f_N = \frac{2\pi}{T} = \frac{1}{T} HZ$$
 $R_{Bmax} = 2f_N = \frac{2}{T} R_{and}$
 $R_B = \frac{2}{T} R_{and}$

RB = REMAX, FISI



$$\frac{W = \frac{2\pi}{T_0}}{\text{Hag(w)}} = \frac{2\pi}{T_0} = \frac{2\pi}{T_0} = \frac{4\pi i}{T_0}$$

$$1 \text{W} = \frac{2\pi}{T_0} = \frac{2\pi}{T_0} = \frac{2\pi}{T_0}$$

$$1 \text{W} > \frac{2\pi}{T_0}$$

$$1 \text{W} > \frac{2\pi}{T_0}$$

(2)
$$f_{N} = \frac{W_{0}}{M} = \frac{2\pi}{16} \cdot \frac{1}{24} = \frac{1}{76}$$

$$R_{B} = 2f_{N} = \frac{2W_{0}}{M}$$

$$B = (I+x)f_{N} = (I+x)\frac{W_{0}}{271}$$

$$P = \frac{R_{B} m_{0} x}{B} = \frac{2W_{0}}{(I+x)\frac{W_{0}}{M}} = \frac{1}{1+x}$$

$$(B_{a} m_{0})f_{N} = \frac{1}{1+x}$$

$$B = (1+\alpha) f_N (HZ)$$

 $\alpha = \beta / f_N \cdot 2\eta \quad (A : 超 wo. 距筒)$
 $\beta = \frac{ABmax}{B}$