

### 期中测试(2022-05-04)

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**摘 要:**摘要。 **关键词:**词1,词2

## Mid-term Exam (2022-05-04)

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Abstract: Abstract.

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#### 1 Midterm-Exam (2022-05-04)

$$I(E2)=1$$

$$-1.(1) \quad N(U) = \frac{1}{126} + \frac{$$



$$-1. \quad \alpha^{2} - \alpha - 2 - \alpha \quad \Rightarrow \quad (x-2)(x+1) = 0 \quad \Rightarrow \quad \alpha_{1} = -1, \quad \alpha_{2} = 2.$$

$$\begin{cases} y_{2i}[n] = 1 & C_{1}(-1)^{n} + G_{2} \cdot 2^{n} \\ y_{2i}[-1] = 2, y_{2i}[-2] = -1/2 \end{cases} \Rightarrow \begin{cases} -C_{1} + \frac{1}{2}C_{2} = 2, \\ C_{1} + \frac{1}{4}G_{2} = -1/2 \end{cases}$$

$$\Rightarrow \frac{3}{4}G_2 = \frac{3}{2} \Rightarrow G_2 = 2 \Rightarrow G_4 = -1$$

$$y_{2s}[n] = C_{3}(-1)^{n} + C_{4} \cdot 2^{n} - \frac{1}{2}, N7,0,$$

$$y_{2s}[n] = 1, y_{2s}[1] = 2$$

$$\Rightarrow \begin{cases} G_{5} + C_{4} = \frac{1}{24} \frac{3}{2}, \\ -G_{5} + 2C_{4} = \frac{5}{12} \end{cases} \Rightarrow C_{4} = \frac{4}{3}, G_{5} = \frac{3}{2} - \frac{4}{3} = \frac{1}{6}.$$

$$\Rightarrow y_{88}[n] = \left[\frac{1}{6}(-1)^n + \frac{14}{3} \cdot 2^n - \frac{1}{2}\right] u[n].$$

2. 
$$\tilde{y}_{2i}[n] = \tilde{y}_{2i}[n] = (-1)^{n+1} + 2^{n+1},$$
  
 $\tilde{y}_{2i}[n] = \tilde{y}_{2i}[n-2] = \left[\frac{1}{6}(-1)^n + \frac{1}{3}\cdot 2^n - \frac{1}{4}\right] \text{ w.[n-2]},$ 

-2-



$$= 1. \quad S(t) = T_s \sum_{n} \int_{T_s} \int_{T$$

=) 
$$s(t) = \sum_{k} e^{jk\Omega_{s}t} \iff \sum_{k} 2\pi d(\omega_{k} - k\Omega_{s}) = : S(\omega)$$

$$\Rightarrow \chi_{S}(t) = \chi(t) S(t) \iff \frac{1}{2\bar{\lambda}} \chi(\omega) + S(\omega) = \sum_{k} \chi(\omega - k\omega_{k}) = \chi_{S}(\omega),$$

$$\frac{1}{\sqrt{s}(\omega)} = \frac{1}{\sqrt{s}(\omega)} = \frac{1}{\sqrt{s}(\omega)$$

2. A 
$$\chi(\omega) = \frac{1}{54 + 3} + \frac{1}{34 + 5} + \frac{1}{34$$

3. 
$$\frac{1}{3}(\omega) = \frac{1}{-(\mu \omega_{m})} \frac{1}{0} \frac{1}{3} \frac{1}{2} \frac{1$$

4. (1) 
$$\frac{1}{2}$$
  $\frac{1}{2}$   $\frac{1}{2}$ 

$$263: \quad Y_{3}(\omega) \rightarrow 0 = (42) \xrightarrow{14} (42) \xrightarrow{14} (42) \xrightarrow{14} (42) \xrightarrow{14} (42) \xrightarrow{14} (42)$$

$$36 \text{ as } \omega \neq 0$$

: 异原和 
$$A=1$$
,  $\omega_0=\omega_S=4\omega_m$ ,  $\omega_m<\omega_0<7\omega_m$ , 标为  $\chi_{\Sigma}(\omega)=\chi_{\Sigma}(\omega)=\chi(\omega)$ 。  $(3)$   $(4)$   $(4)$   $(4)$   $(5)$   $(4)$   $($ 

-3-



# References