

第10章作业

危国锐 516021910080

(上海交通大学电子信息与电气工程学院,上海 200240)

摘 要: .

关键词: 词1, 词2

Homework (Chapter 10)

Guorui Wei 516021910080

(School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China)

Abstract: Abstract.

Keywords: keyword 1, keyword



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1 Chapter 10

$$1 \stackrel{\text{def}}{\text{def}} \stackrel{\text{def}$$





$$4 \stackrel{?}{\otimes} \times \chi(a) = \frac{\frac{3}{\sqrt{2}}z^{-1}}{(1-7z^{-1})(1-\frac{1}{\sqrt{2}}z^{-1})} = \frac{-\frac{3}{4}/\frac{3}{2}}{1-2z^{-1}} + \frac{-3/(-3)}{1-\frac{1}{2}z^{-1}} = \frac{-\frac{7}{2}z}{(z-2)(z-y_{2})}$$

$$\Rightarrow \stackrel{?}{\otimes} \times \exists_{1} = 0, \quad \stackrel{?}{\otimes} \times D, \quad \stackrel{?}{\otimes} = 2, \quad \stackrel{?}{?}_{2} = \frac{1}{\sqrt{2}} \times D, \quad \stackrel{?}{\otimes} \times D, \quad \stackrel{?}$$



5.(b)
$$(1 - \frac{9}{10}z^{-1}) Y(z) - \frac{9}{10}y[-1] = \frac{1}{20} \frac{1}{1-z^{-1}}$$

$$\Rightarrow Y(z) = \frac{9/10}{1 - \frac{9}{10}z^{-1}} + \frac{1/20}{(1 - \frac{9}{10}z^{-1})(1-z^{-1})} = \frac{\frac{9}{10} - \frac{9}{20}}{1 - \frac{9}{10}z^{-1}} + \frac{1/2}{1-z^{-1}}, |z|>1$$

$$\Leftrightarrow y[x] := \frac{9}{20} \cdot (\frac{9}{10})^n + \frac{1}{20}, n > 0.$$

(a)
$$H(B) = \frac{\chi(B)}{\chi(B)} = \frac{1 - \frac{2}{5} \frac{1}{5} + \frac{2}{5} - 1}{\frac{1 - \frac{2}{5} \frac{1}{5} + \frac{2}{5} - 1}{\frac{2}{5} - 1}} = \frac{\frac{1 - \frac{2}{5} \frac{1}{5} + \frac{2}{5} - 1}{\frac{2}{5} - 1}}{\frac{2}{5} - \frac{2}{5} - \frac{2}$$

$$\Rightarrow \mathcal{M}: \exists_{k=0}, \exists_$$

(i) Roc:
$$|2| > 2$$
, $|3| > 2$, $|3| = \frac{2}{3} (2)^n u[n] - \frac{2}{3} (\frac{1}{3})^n u[n]$.

7.
$$4 = (a) \frac{1}{2} \times [n] = (\frac{1}{2})^n u[n] \Leftrightarrow \frac{1}{1 - \frac{1}{2} - 1}, |3| > 1/2, |6|,$$
 $1/2 = 1/2 + a(\frac{1}{4})^n u[n] \Leftrightarrow 1 + \frac{a}{1 - \frac{1}{4} 2 - 1}, |3| > 1/4$

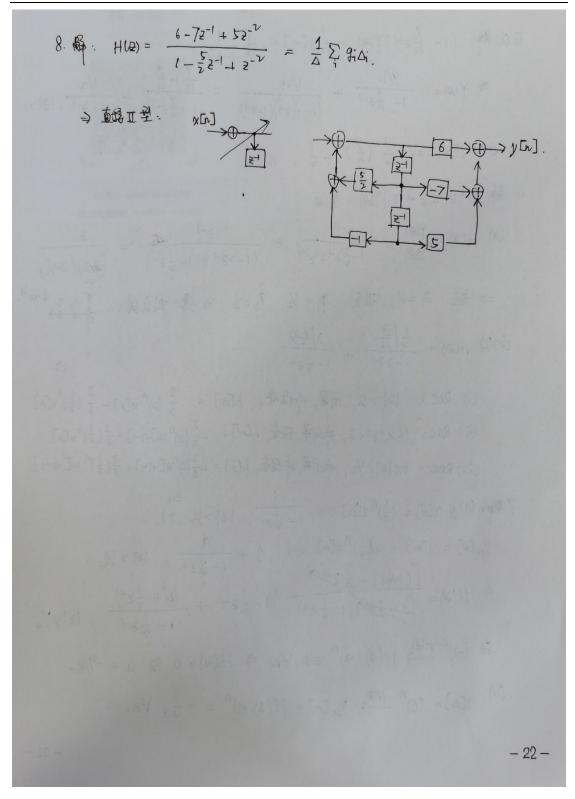
$$1/2 = \frac{(1+a) - \frac{1}{4} 2^{-1}}{(1 - \frac{1}{4} 2^{-1})} = \frac{a(1 - \frac{1}{2} 2^{-1})}{(1 - \frac{1}{4} 2^{-1})}, |3| > 1/4$$

$$(-2)^n \xrightarrow{H(2)} H(-2)(-2)^n = 0, \forall n \Rightarrow H(-2) = 0 \Rightarrow 0 = -9/8.$$

(b)
$$\chi[n] = (4)^n \xrightarrow{H(2)} \chi_{36}[n] = H(4) (4)^n = -\frac{1}{4}, \forall n.$$

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References