(- 1/4)A(2)

11: Depict the parallel-form representation of the system

$$H(z) = \frac{4 - \frac{1}{2} z^{-1} - \frac{1}{2} z^{-2}}{\left(1 - \frac{1}{2} z^{-1}\right) \left(1 + \frac{1}{2} z^{-1}\right) \left(1 - \frac{1}{4} z^{-1}\right)}$$

Y2(2)=1.A(2)

 $A(z) = 1 \cdot \chi_2(z) - \left(\frac{1}{2}z^{-1}\right) \cdot A(z)$

$$H(z) = \frac{1}{1 - \frac{1}{2} z^{-1}} + \frac{1}{1 + \frac{1}{2} z^{-1}} + \frac{2}{1 - \frac{1}{4} z^{-1}}$$

$$H_{3}(z) : \frac{1}{1 + \frac{1}{2} z^{-1}} + \frac{1}{1 + \frac{1}{2} z^{-1}} + \frac{1}{1 - \frac{1}{4} z^{-1}}$$

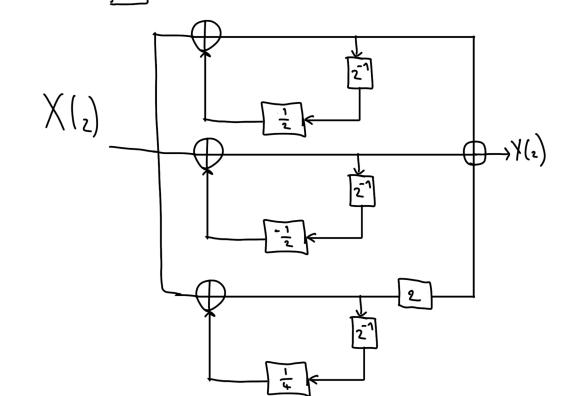
$$H_{3}(z) : \frac{1}{1 + \frac{1}{2} z^{-1}} \cdot \frac{A(z)}{A(z)} \cdot \frac{$$

$$H_{1}(z) = \frac{1}{X_{1}(z)} - \frac{1}{A(z)} - \frac{A(z)}{A(z)} \qquad H_{2}(z) = \frac{1}{X_{2}(z)} - \frac{A(z)}{A(z)} \qquad X_{3}(z) - \frac{A(z)}{4} \qquad X_{4}(z) - \frac{A(z)}{4} \qquad X_{4}(z) - \frac{A(z)}{4} \qquad X_{4}(z) - \frac{A(z)}{4} \qquad$$

$$A(z) = \int_{z} \chi_{1}(z) - \left(-\frac{1}{2}z^{-1}\right)A(z)$$

$$A(z) = \int_{-\infty}^{\infty} X_{\lambda}(z) - \left(-\frac{1}{2}z^{-\lambda}\right) A(z)$$

$$\begin{array}{c} X_{1}(z) \xrightarrow{A(z)} Y_{1}(z) \\ \xrightarrow{\frac{1}{2}} \overline{y_{2}-1} \xrightarrow{k} Y_{2}(z) \end{array}$$



$$H(z) = \frac{z^3 - 2z^2 + z}{z^3 - 0.1z^2 - 0.07z - 0.065}$$

$$H(z) = \frac{1 - 2z^{-1} + z^{-2}}{1 - 0.1z^{-1} - 0.007z^{-2} - 0.0065z^{-3}} \cdot \frac{A(z)}{A(z)} = \frac{Y(z)}{X(z)}$$

$$Y(z) = 1.(1-2z^{1}+z^{-2}).A(z)$$

$$A(z) = 1.X(z) - (-0.1.z^{-1}.0.007z^{-2}-0.0065z^{-3})A(z)$$

