

$$C_{\text{Zurück}}(z) = \frac{-2,441z + 2,4355}{z - 1} = \frac{\mu}{e}$$

$$\frac{z^{-1}}{z^{-1}} \frac{-2,441z + 2,4355}{z - 1} = \frac{\mu}{e}$$

$$\frac{-2,441 + 2,4355z^{-1}}{1 - z^{-1}} = \frac{\mu}{e}$$

$$-2,441 e[n] + 2,4355 e[n-1] = \mu[n] - \mu[n-1]$$

Forward

$$C = \frac{k(D+p)}{D}$$

$$D = \frac{z-1}{T}$$

$$C_{\text{Vor}}(z) = \frac{k\left(\frac{z}{T} - \frac{1}{T} + p\right)}{\frac{z-1}{T}} = \frac{k(z-1+p \cdot T)}{z-1}$$

$$\mu[n] - \mu[n-1] = K(1+pT)x[n] - KpTx[n-1]$$

Block :

$$\Delta = \frac{z-1}{Tz}$$

$$C_{\text{lock}}(z) = \frac{K \left(\frac{z-1}{z \cdot T} + P \right)}{\frac{z-1}{T \cdot z}} = \frac{K (z-1 + P \cdot T \cdot z)}{z-1}$$

$$C_{\text{lock}}(z) = \frac{K ((1+P \cdot T) z - 1)}{z-1} = K(1+P \cdot T) \frac{(z - \frac{1}{1+P \cdot T})}{z-1}$$

$$u[n] - y[n-1] = K(1+P \cdot T) x[n] - K x[n-1]$$