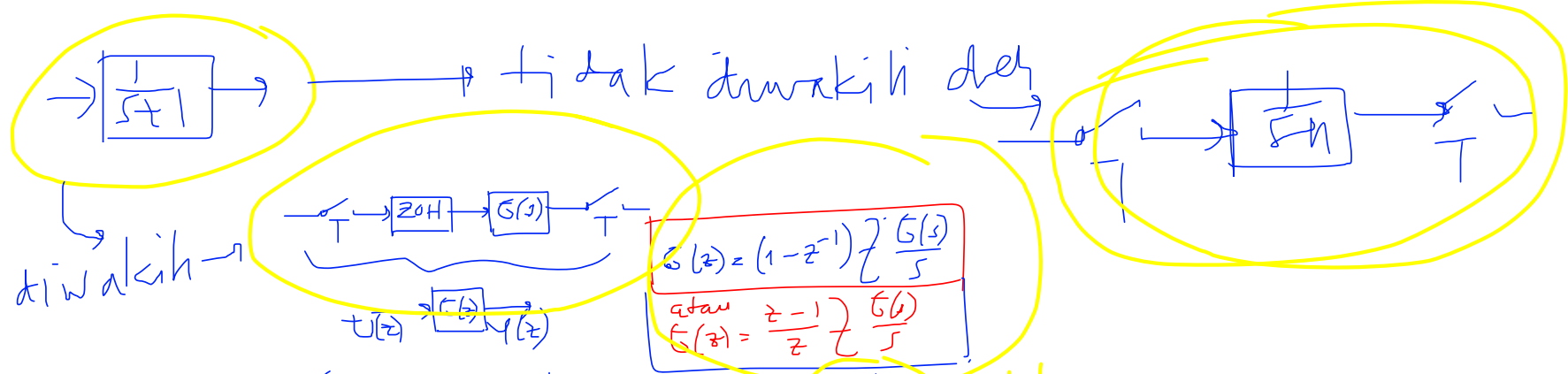




Contoh. $G(s) = \frac{1}{s+1} \rightarrow G(z) = \frac{z-1}{z} \left\{ \frac{1}{s(s+1)} \right\}$ (tabel)

$a=1$
 $T=0,2$

$$U(z) = \frac{1}{s} = \frac{z}{z-1}$$

$$Y(z) = G(z)U(z) = \left(\frac{z-1}{z} \right) \left(\frac{0,18127}{z-0,81873} \right) = \frac{0,18127 z}{z^2 - 1,81873z + 0,81873}$$

$Y(z) = G(z)U(z) = \left(\frac{z}{z-1} \right) \left(\frac{0,18127}{z-0,81873} \right) = \frac{0,18127 z}{z^2 - 1,81873z + 0,81873}$

$y(k), k=0,1,2,3 \dots$ dapat dicari dengan pembagian:

$$\frac{0,18127z^{-1} + 0,32968z^{-2} \dots}{z^2 - 1,81873z + 0,81873}$$

k	y(k)
0	0
1	0,18127
2	0,32968
3	1

$$\begin{array}{r} 0,18127z^{-1} + 0,32968z^{-2} \dots \\ 0,18127z^{-1} - 0,32968 + 0,14841z^{-1} \\ \hline 0,32968 - 0,14841z^{-1} \\ 0,32968 \dots \end{array}$$

Lanjutkan

Kesimpulan

Model $G(z)$ dengan ZOH lebih REALISTIS secara FISIK dibandingkan Model $G(z)$ TANPA ZOH