



$$H(s) = \frac{1}{\frac{1}{s} + 1}$$

$$590 \quad f_c = 710 \quad \frac{1}{(s+1)}$$

$$H(s) = \frac{1}{(s^2 + s + 1)} \rightarrow H(z)$$

$$H(z) = H(s) \Big|_{s = \frac{2}{T} \frac{(z - 1)}{(z + 1 + 1)}} = \frac{a_0 + a_1 z^{-1}}{1 + b_1 z^{-1}}$$

Warping



$$H(z) = H(s) = 1$$

$$s = \frac{z-1-1}{z+1}$$

$f_D = \log |H(z)|$ PRE Warping

Pres wampis

$$\Omega_A = \frac{2}{T_s} + g \left(W_b \cdot \frac{T_s}{2} \right)$$

$$f_{CD} = 100 \text{ Hz} \rightarrow \Omega_A = \frac{2}{44000} + g \left(133 \frac{44}{2} \right)$$





