

# CMPE-242

## Applied Feedback Control

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Office Hours

CE-242

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$$D(z) = \frac{z + \frac{1}{2}}{z - \frac{1}{2}}$$

$$z = e^{-j\omega_c T}$$

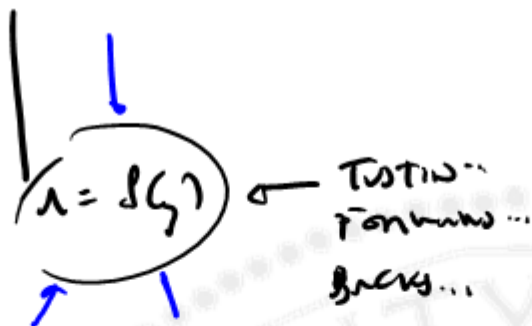
complex to

X

evalfr — dsymbs



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



$$H(z)$$

$$z = \frac{1}{T} \ln(s) \quad \leftarrow \text{exact mapping}$$



$$|z| = \frac{z + 0.3}{z - 1.3}$$

$$0 \rightarrow -0.3$$

$$\infty \rightarrow +1.3$$

$$0(n) = \frac{1}{T} \ln(-0.3)$$

$$x(n) = \frac{1}{T} \ln(1.3)$$

