

Analog Domain
(Continuous time Domain)

$t=NT$ 

Discrete Time Domain

$x(t)$

Laplace
Transform

$X(s)$

$s=j\omega$

$X(\omega)$

$$\theta = \omega_a T = 2\pi \frac{f_a}{f_s}$$

$$-\pi \leq \theta \leq \pi$$

$\theta \triangleq$ digital frequency

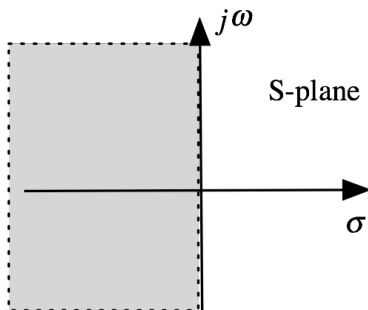
$x[n]$

z- Transform

$X(z)$

$z = e^{j\theta}$

$X(e^{j\theta}) \equiv X(\theta)$



STABLE
REGION

