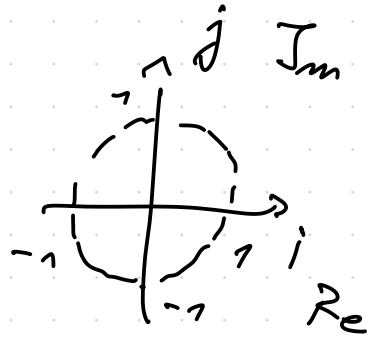


# Stabilitatea în timp discret

$$\Delta(z) = a_n z^n + \dots + a_0 = 0$$

$$\frac{|z_v| < 1}{\text{Sufficient}}$$

$$v = 1, \dots, n$$



$z_v = 1 \rightarrow$  iesirea linie cresc.

$z_v = -1 \rightarrow$  oscilanta

Sample Time pt Matlab (Discrete Transf.Fcn)

Modelling  $\rightarrow$  Model Explorer

$$\Delta(z) \rightarrow z = \frac{1+w}{1-w} \quad \text{sau} \quad \frac{1-w}{1+w}$$

$\rightarrow$  apl. ca în timp continuu  $\leftarrow$  Hurwitz  
 $H(s) / H(w)$

$\rightarrow$  sau Crit. Jury

$$A(z) = z^3 + 3z^2 + 4z + 9.5$$

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

$$A(r) = \frac{\quad}{\quad}$$

$$A(r) = \frac{(r+1)^3 + 3 \cdot (r+1)^2(r-1) + 4 \cdot (r+1)(r-1)^2 + 9.5(r-1)^3}{(r-1)^3}$$

Tema : 5, 6, 7 Paib 3

Jury  
Toote

↓ + Transf. Conformă + Simulink