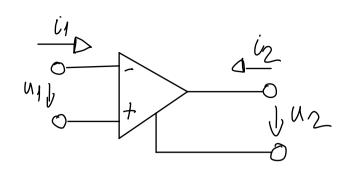


#### Ideallis erdsitő

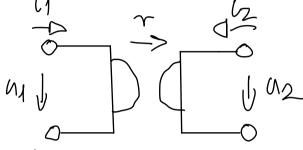
U1=0 aletivelen!



#### Girator

$$U_2 = \gamma \cdot \dot{U}_1$$

$$U_1 = -\gamma \cdot \dot{U}_2$$



nonenergikus komponens

$$P = 0$$

#### Rondinzator:

$$-i_2 = C \cdot u_2$$

# KARAKTER: ISZTIKÁK

## Impedancia-[R]

$$U_1 = R_{11} \cdot i_1 + R_{12} \cdot i_2$$
  
 $U_2 = R_{21} \cdot i_1 + R_{22} \cdot i_2$ 

# Admittancia - G = S $i_1 = G_{11} \cdot u_1 + G_{12} \cdot u_2$ $i_2 = G_{21} \cdot u_1 + G_{22} \cdot u_2$ Hibrid - [H]

 $U_1 = H_{11} \cdot i_1 + H_{12} \cdot U_2$  $i_2 = H_{21} \cdot i_1 + H_{22} \cdot U_2$ 

### Inverz hibrid - [K]

 $i_1 = K_{11} \cdot u_1 + K_{21} \cdot i_2$  $u_2 = K_{21} \cdot u_1 + K_{22} \cdot i_2$ 

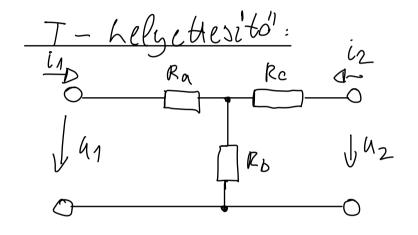
# La'nc -[A]

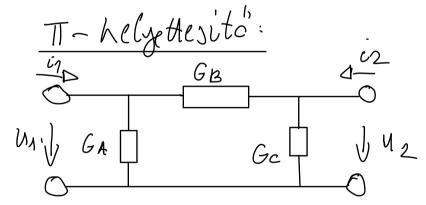
 $U_1 = A_{11} \cdot U_2 + A_{12} \cdot V_2$   $i_1 = A_{21} \cdot U_2 + A_{22} \cdot i_2$   $l_n verz \ Lanc - [B]$   $u_2 = B_{11} \cdot u_1 + B_{12} \cdot i_1$   $u_2 = B_{21} \cdot u_1 + B_{22} \cdot i_1$ 

R12 + R21 => rem reciprole >> rem szimmetrikus

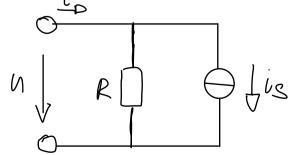
$$R_{11} \cdot R_{22} \ge \left(\frac{R_{12} + R_{21}}{z}\right)^2 = > hassziv$$

$$HELYETTES ITESEK$$





Norton generator



$$\dot{L} = \dot{L}_S - \frac{u}{R_S}$$