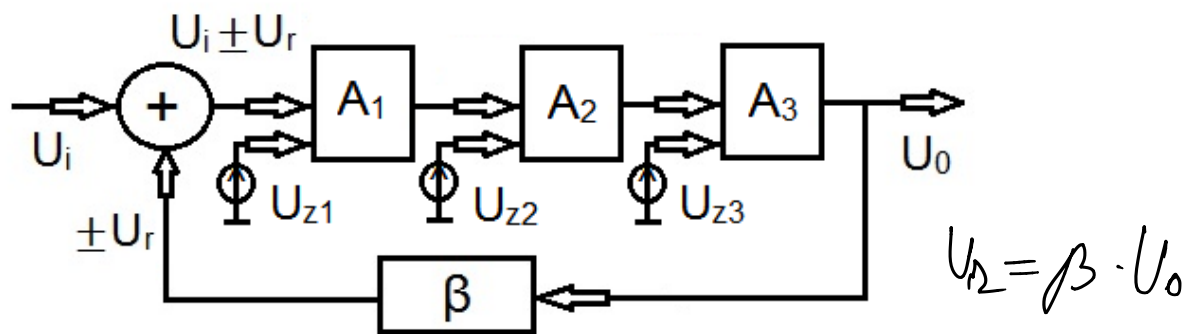


INFLUENȚA REACȚIEI ASUPRA PERTURBAȚIILOR DIN AMPLIFICATOARE



$$\begin{aligned}
 U_o &= A_{u3} [U_{z3} + A_{u2} (U_{z2} + A_{u1} (U_{z1} + U_i \pm U_f))] = \\
 &= A_{u3} \cdot U_{z3} + A_{u3} A_{u2} \cdot U_{z2} + A_{u3} A_{u2} A_{u1} \cdot U_{z1} + \\
 &+ A_{u3} A_{u2} A_{u1} \cdot U_i \pm A_{u3} A_{u2} A_{u1} \cdot \beta \cdot U_o
 \end{aligned}$$

$$\begin{aligned}
 U_o \pm \beta \cdot U_o \cdot A_{u1} \cdot A_{u2} \cdot A_{u3} &= U_i \cdot A_{u1} \cdot A_{u2} \cdot A_{u3} + A_{u1} A_{u2} A_{u3} \cdot U_{z1} + \\
 &+ A_{u2} \cdot A_{u3} \cdot U_{z2} + A_{u3} \cdot U_{z3}
 \end{aligned}$$

$$\begin{aligned}
 U_o (1 \pm \beta A_{u1} A_{u2} A_{u3}) &= U_i \cdot A_{u1} A_{u2} A_{u3} + U_{z1} \cdot A_{u1} \cdot A_{u2} \cdot A_{u3} + \\
 &+ U_{z2} \cdot A_{u2} \cdot A_{u3} + U_{z3} \cdot A_{u3}
 \end{aligned}$$

$$\begin{aligned}
 U_o &= \frac{U_i \cdot A_{u1} \cdot A_{u2} \cdot A_{u3} \text{ (1)}}{1 \pm \beta A_{u1} \cdot A_{u2} \cdot A_{u3}} + \frac{U_{z1} \cdot A_{u1} \cdot A_{u2} \cdot A_{u3} \text{ (2)}}{1 \pm \beta A_{u1} \cdot A_{u2} \cdot A_{u3}} + \\
 &+ \frac{U_{z2} \cdot A_{u2} \cdot A_{u3} \text{ (3)}}{1 \pm \beta A_{u1} \cdot A_{u2} \cdot A_{u3}} + \frac{U_{z3} \cdot A_{u3} \text{ (4)}}{1 \pm \beta A_{u1} \cdot A_{u2} \cdot A_{u3}}
 \end{aligned}$$