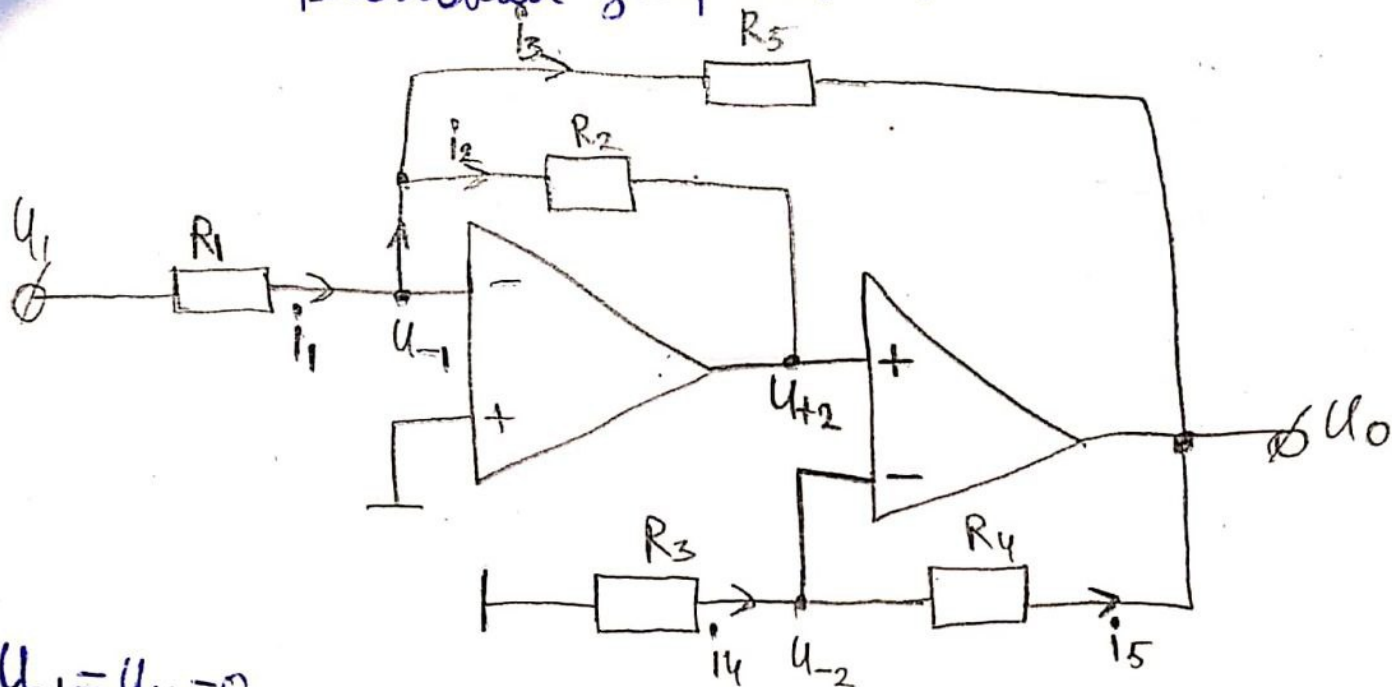


Туробад Зағара 5.



$$U_{-1} = U_{+1} = 0$$

$$\frac{U_1 - 0}{R_1} = i_1, \quad i_1 = i_2 + i_3, \quad i_2 = \frac{U_{-1} - U_{+2}}{R_2} = \frac{-U_{+2}}{R_2}; \quad U_{+2} = U_{-2}$$

$$i_4 = \frac{0 - U_{-2}}{R_3} = i_5 = \frac{U_{-2} - U_0}{R_4} \quad i_3 = \frac{U_{-1} - U_0}{R_5} = -\frac{U_0}{R_5}$$

$$\frac{U_1}{R_1} = -\left(\frac{U_{+2}}{R_2} + \frac{U_0}{R_5}\right); \quad \frac{U_0 - U_{+2}}{R_4} = \frac{U_{+2}}{R_3} \Rightarrow U_{+2} = \frac{U_0 R_3}{R_3 + R_4}$$

$$\frac{U_1}{R_1} = -U_0 \left(\frac{R_3}{R_2(R_3 + R_4)} + \frac{1}{R_5} \right) = -U_0 \left(\frac{R_3 R_5 + R_2(R_3 + R_4)}{R_2 R_5 (R_3 + R_4)} \right)$$

↓

$$U_0 = -\frac{U_1 (R_2 R_5 (R_3 + R_4))}{R_3 R_5 + R_2 (R_3 + R_4)}$$

⇓

$$K = \frac{U_0}{U_1} = -\frac{R_2 R_5 (R_3 + R_4)}{R_3 R_5 + R_2 (R_3 + R_4)}$$