

oberer Zweig $\Delta p = I_1 \cdot R_1$ $I_1 \cdot R_1 = I_2 \cdot R_2$
 $\Delta p = I_2 \cdot R_2$ $\frac{I_1}{I_2} = \frac{R_2}{R_1}$

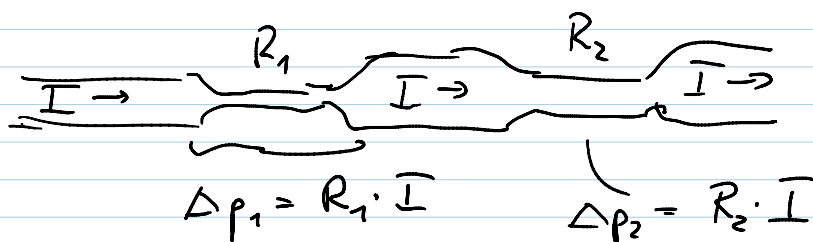
$$I = I_1 + I_2 = \frac{\Delta p}{R_1} + \frac{\Delta p}{R_2} = \frac{\Delta p}{R}$$

$$\Delta p \left(\frac{1}{R_1} + \frac{1}{R_2} \right) = \Delta p \cdot \frac{1}{R}$$

$$\boxed{\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}}$$

$$\frac{1}{R} = \frac{R_2 + R_1}{R_1 \cdot R_2}$$

$$R = \frac{R_1 \cdot R_2}{R_1 + R_2}$$



$$\Delta p = \Delta p_1 + \Delta p_2 = R_1 \cdot I + R_2 \cdot I = (R_1 + R_2) \cdot I$$

$$\Delta p \quad \boxed{R = R_1 + R_2} \quad = R \cdot I$$

Δp

$$R = R_1 + R_2$$

$$= R \cdot I$$