



$$P_0 = \Delta U^2 R_0 = \frac{100}{121} \Delta U^2 R_0 = \frac{100}{121} \Delta U_x^2 R_x$$

$$\Delta U_x = \Delta U \sqrt{\frac{R_0}{R_x}}$$

$$P' = \frac{1}{100} P$$

$$P_x^2 \Delta U_x^2 R_x = \frac{1}{100} R_0 P^2 \Delta U^2$$

$$\frac{R^2}{R_x^2} \cancel{\Delta U^2} \frac{\cancel{R_0}}{\cancel{R_x}} R_x = \frac{1}{100} \cancel{R_0} \cancel{\Delta U^2} \frac{1}{100}$$

$$\frac{R^2}{R_x^2} = \frac{1}{100^2}$$

$$R_x = 100R = \underline{\underline{10R_0}}$$

$$(p+1)\Delta U = U$$

$$1,1\Delta U = U$$

$$I = \frac{p\Delta U}{R} = \frac{\Delta U}{R_0} = \frac{U}{R+R_0}$$

$$0,1R_0 = R$$

$$\frac{R_0}{R} = \frac{1}{10}$$

$$(p_x+1)\Delta U_x = U_x$$

$$I_x = \frac{p_x \Delta U_x}{R} = \frac{\Delta U_x}{R_x} = \frac{U_x}{R+R_x}$$

$$p_x = \frac{R}{R_x}$$

$$\Delta U_x = \frac{R_x}{R+R_x} U_x$$

$$\Delta U_x = \Delta U \frac{1}{10} \sqrt{\frac{R_0}{R}} = \Delta U \frac{1}{10} \frac{1}{\sqrt{10}} = U \frac{1}{1,1} \frac{1}{10} \frac{1}{\sqrt{10}} = \underline{\underline{U \frac{1}{11\sqrt{10}}}}$$