$$\Delta C = 1, 1.10^{-3} F \cdot 0,05 = 5,5.10^{-5} F$$

$$\Delta i = 1,2 \cdot 10^{-3} A \cdot 0,01 = 1,2 \cdot 10^{-5} A$$

$$\frac{\partial P}{\partial R} = \frac{i^2 R (2C+R)}{(C+R)^2}$$

$$\frac{\partial P}{\partial R} = \frac{(1_1 2 \cdot 10^{-3})^2 \cdot 1000(2 \cdot 1_1 1 \cdot 10^{-3} + 1000)}{(1_1 1 \cdot 10^{-3} + 1000)^2} = 1_144 \cdot 10^{-3}$$

$$\frac{\partial P}{\partial i} = \frac{2iR^2}{C+R}$$

$$\frac{\partial P}{\partial i} = \frac{2 \cdot (1, 2 \cdot 10^{-3}) \cdot 1000^{2}}{1, 1 \cdot 10^{-3} + 1000} = m 2, 4 \cdot 1000^{2}$$

$$\frac{\partial P}{\partial C} = -\frac{R^2 i^2}{(C+R)^2}$$

$$\frac{\partial P}{\partial C} = -\frac{1000^2 \cdot (1, 2 \cdot 10^{-3})^2}{(1, 1 \cdot 10^{-3} + 1000)^2} = -1/4 \cdot 10^{-6}$$

$$\Delta P(R_{i},C) = \frac{|SP(R_{i},C)|}{SR} \cdot \Delta R + \frac{|SP(R_{i},C)|}{|SC|} \cdot \Delta C$$

$$\Delta P(R_{1}i,C) = |1,44\cdot10^{-6}|\cdot20+|2,4|\cdot1,2\cdot10^{-5}+ \\ + |-1,4\cdot10^{-6}|\cdot5,5\cdot10^{-5} = 5,76\cdot10^{-5}$$

$$SP = W_1 \cdot SR + W_2 Si + W_3 SC_*$$

$$W_1 = \left| \frac{P_R(R_1 i, C) \cdot R}{P(R_1 i, C)} \right|$$

$$W_2 = \left| \frac{P_i(R_{ii,C}) \cdot i}{P(R_{ii,C})} \right|$$

$$W_3 = \frac{P_c(R, i, c) \cdot c}{P(R, i, c)}$$

$$P = \frac{R^2 i^2}{C+R} = \frac{1000^2 \cdot (1,2 \cdot 10^{-63})^2}{1,1 \cdot 10^{-3} + 1000} = 1,44 \cdot 10^{-3}$$

$$W_1 = \left| \frac{1.44 \cdot 10^{-6} \cdot 1000}{1.44 \cdot 10^{-3}} \right| = 1$$

$$W_2 = \left| \frac{2.4 \cdot 1.2 \cdot 10^{-3}}{1.44 \cdot 10^{-3}} \right| = 2$$

$$W_3 = \left| \frac{-1.4 \cdot 10^{-6} \cdot 1.1 \cdot 10^{-3}}{1.44 \cdot 10^{-3}} \right| = 1.1 \cdot 10^{-6}$$

$$SP = W_1 \cdot SR + W_2 \cdot Si + W_3 \cdot SC$$

$$SP = 1.0,02 + 2.0,01 + 1,1.10^{-6},0,05 = 0,04$$