Gleichgewicht:

Q = 0.34\*1e6;

Cin = 320;

Qex = 0.5\*1e6;

V\_E = 50\*1e6;

V\_H = 100\*1e6;

0.34\*1e6 \* 320 / (50\*1e6) + C2 \* 0.5\*1e6 / (50\*1e6)

- 0.34\*1e6 \* C1 / (50\*1e6) – 0.02 \* C1 – 0.5\*1e6 \* C1 / (50\*1e6) = 0

0.5\*1e6 \* C1 / (100\*1e6) – 0.002 \* C2 – 0.5\*1e6 \* C2 / (100\*1e6) = 0

-> C2 = 5 \* C1 / 7

0.34\*1e6 \* 320 / (50\*1e6) + 5 \* C1 \* 0.5\*1e6 / (7 \* 50\*1e6)

- 0.34\*1e6 \* C1 / (50\*1e6) – 0.02 \* C1 – 0.5\*1e6 \* C1 / (50\*1e6) = 0

-> C1 = 73.372 -> C2 = 52.409

[http://www.wolframalpha.com/input/?i=0.5\*1e6+\*+A1+%2F+%28100\*1e6%29+%E2%80%93+0.002+\*+A2%E2%80%93+0.5\*1e6+\*+A2+%2F+%28100\*1e6%29+%3D+0+for+A2](http://www.wolframalpha.com/input/?i=0.5*1e6+*+A1+%2F+%28100*1e6%29+%E2%80%93+0.002+*+A2%E2%80%93+0.5*1e6+*+A2+%2F+%28100*1e6%29+%3D+0+for+A2)

[http://www.wolframalpha.com/input/?i=0.34\*1e6+\*+320+%2F+%2850\*1e6%29+%2B+5+\*+A1+\*+0.5\*1e6+%2F+%287+\*+50\*1e6%29++-+0.34\*1e6+\*+A1+%2F+%2850\*1e6%29+%E2%80%93+0.02+\*+A1+%E2%80%93+0.5\*1e6+\*+A1+%2F+%2850\*1e6%29+%3D+0+for+A1](http://www.wolframalpha.com/input/?i=0.34*1e6+*+320+%2F+%2850*1e6%29+%2B+5+*+A1+*+0.5*1e6+%2F+%287+*+50*1e6%29++-+0.34*1e6+*+A1+%2F+%2850*1e6%29+%E2%80%93+0.02+*+A1+%E2%80%93+0.5*1e6+*+A1+%2F+%2850*1e6%29+%3D+0+for+A1)

[http://www.wolframalpha.com/input/?i=0.5\*1e6+\*+38080+%2F+%28519+\*+50\*1e6%29+%E2%80%93+0.002+\*+A%E2%80%93+0.5\*1e6+\*+A+%2F+%28100\*1e6%29+%3D+0+for+A](http://www.wolframalpha.com/input/?i=0.5*1e6+*+38080+%2F+%28519+*+50*1e6%29+%E2%80%93+0.002+*+A%E2%80%93+0.5*1e6+*+A+%2F+%28100*1e6%29+%3D+0+for+A)





