systheol Gli7

$$\frac{A15.a_1}{u_n \sqrt{\frac{R_2}{1}} \sqrt{\frac{u_n}{u_n}}}$$

$$\frac{U_{2}(j\omega)}{U_{n}(j\omega)} = \frac{R_{2} + \frac{1}{j\omega c}}{R_{n} + R_{2} + \frac{1}{j\omega c}} = \frac{1 + j\omega R_{2}(c)}{1 + j\omega (R_{n} + R_{2})(c)}$$

mit larameter werter

$$\frac{U_{2}(j\omega)}{U_{n}(j\omega)} = \frac{1 + j\omega \cdot 10^{-5}}{1 + j\omega \cdot 1,1.10^{-9}} = G(j\omega)$$

=>
$$G(s) = \frac{1 + s - 10^{-5}}{1 + 1.7 \cdot s \cdot 10^{-4}}$$

1. Seveehuung Pole/Nullstellen Pol Sg1 = -0,91.104

NST SN = - 105

-> Pole und NST entegr. den Knick freg.

-> et zeichnen der Knick frequen zen

-> Ampliferdengæng von Unks nach vedts

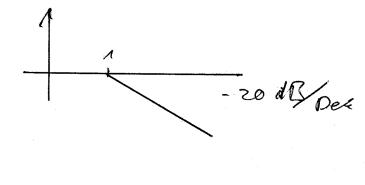
Plusengeng skigt och fellet. (unter hold)

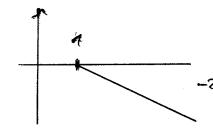
-> revolue blacengang von Aules

$$u_{\alpha} = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right$$

$$\frac{U_2(j\omega)}{U_1(j\omega)} = \frac{\frac{1}{j\omega c}}{\frac{1}{j\omega c} + j\omega c + \frac{1}{j\omega c}} = \frac{\frac{1}{j\omega c}}{(j\omega)^2 + \frac{R}{l}j\omega + \frac{1}{lc}}$$

$$G(s) = S + 1$$





Mst h hiller offener s- Helbebene.

=> Zuardung von Ang Stacken

=> Plaseng ang 182 stroleuty

1.) Bestimming der Pole und NSV

Pole: 5, = -1, 52 = -104

NST: 5 = -10

 $w_o: w_o = 10^3$

20 (eg (x) = 80 d B x = 104

 $G(j\omega) = 10^4 \frac{(1+i\omega\cdot10^{-1})}{(1+i\omega)((i\omega\cdot10^{-2})^2+i\omega\cdot0;3\cdot10^{-3}+1)}$ ~(1+iw 10-4)