Herleitung B

$$\varphi_R(\omega) + \varphi_S(\omega) = \varphi_O(\omega)$$

$$\omega_{\text{Pin}} \frac{dy_{\text{R}}(\omega_{\text{Pin}})}{d\omega} = \frac{2\beta}{1+\beta^2}$$

$$\frac{2\beta}{1+\beta^2} + \omega_{Plo} \frac{dys(\omega_{Plo})}{d\omega} = -0.5$$

$$\frac{2\beta}{1+\beta^2} = -0.5 - \omega_{PD} \frac{dy_s(\omega_{No})}{d\omega}$$

$$\frac{2\beta}{1+\beta^2} = 2$$

$$2\beta = z + z\beta^{2}$$

$$0 = z\beta^{2} - 2\beta + z$$

$$\beta_{m_{1}} = \frac{2 \pm \sqrt{4 - 4z^{2}}}{2z} = \frac{1 \pm \sqrt{1 - z^{2}}}{z}$$

$$\beta_{m_{1}} = \frac{1}{z} \pm \sqrt{\frac{1}{z^{2}} - 1}$$

Kommentare /Erklärungen

- 40(w) Phasey any Regler 45(w) Phasey any Strecke 40(w) Phasey an affine Regeling

Skigung im Ruhl Was Betraist

wird in olize Gluichung eingesetzt

Herleitung Unrechnung bodehonform- reglerhonform

$$\frac{\kappa_{RK}(1+sT_{NK})(1+sT_{VK})}{sT_{NK}(1+sT_{P})} = \kappa_{R}\left(1+\frac{1}{sT_{N}}+\frac{sT_{V}}{1+sT_{P}}\right)$$

$$\frac{\operatorname{Kou}\left(\operatorname{S}^{2}\left(\operatorname{TnETva}\right)+\operatorname{S}\left(\operatorname{TnE+Tm}\right)+1\right)}{\operatorname{STnh}\left(1+\operatorname{STp}\right)} = \frac{\operatorname{Ke}\left(\operatorname{S}^{2}\left(\operatorname{TnTp}+\operatorname{TnTv}\right)+\operatorname{S}\left(\operatorname{Tn+Tp}\right)+1\right)}{\operatorname{STn}\left(1+\operatorname{STp}\right)}$$

Tnu + Tvu = Tn + Tp

Tn = Tnu + Tvn - Tp

$$T_{V} = \frac{T_{ni}T_{Va}}{T_{n}} - T_{\rho}$$

KR = KRN => KR = Tn - KAN TNH

Kommentare Erhlärugen

Übertra sunstanthien bodetun form = U-funk reglerhungerm

konn auch jehärzt werden

Hoeffizienten missen gleich sein