$$G_{S} = \frac{b_{0}}{a_{2}S + a_{1}S + a_{0}}$$
 $G_{R} = r_{0} + r_{1}\frac{1}{S} = \frac{r_{0}S + r_{-1}}{S}$

$$G_0 = G_0G_s = \frac{b_0(r_0s + r_{-1})}{(r_2s + c_1s + c_0)s} = \frac{b_0r_0s + b_0r_{-1}}{a_2s^2 + a_1s^2 + a_0s}$$

$$G_{0}(j\omega) = \frac{b_{0}r_{0}j\omega + b_{0}r_{1}}{-j\alpha_{2}\omega^{3} - \alpha_{1}\omega^{2} + \alpha_{0}j\omega} \qquad (-\alpha_{1}\omega^{3}) - j(\alpha_{0}\omega - \alpha_{2}\omega^{3})$$

$$(-\alpha_{1}\omega^{3}) + j(\alpha_{0}\omega - \alpha_{2}\omega^{3})$$

menovatel:
$$(-a_1\omega^2)^2 + (a_0\omega - a_2\omega^3)^2$$

 $a_1\omega^4 + a_0^2\omega^2 - 2a_0\omega^4a_2 + a_2^2\omega^6$
 $a_0^2\omega^2 + (a_1 - 2a_0a_2)\omega^4 + a_2^2\omega^6$

Titatel (len real...)
$$(b_{5}r_{1})(-a_{1}\omega^{2})_{+}(b_{5}r_{0}j\omega)(-j(a_{5}\omega-a_{2}\omega^{3}))$$

 $-b_{5}r_{1}a_{1}\omega^{2} + b_{5}r_{0}\omega^{2}a_{2} - b_{5}r_{0}\omega^{4}a_{2}$
 $(-b_{5}r_{1}a_{1}+b_{5}r_{0}a_{2})\omega^{2} - b_{5}r_{0}a_{2}\omega^{4}$

$$\frac{\left(-b_{0}r_{1}a_{1}+b_{0}r_{0}a_{2}\right)^{2}-b_{0}r_{0}a_{2}\omega^{4}}{a_{0}^{2}\omega^{2}+\left(a_{1}-2a_{0}a_{1}\right)\omega^{4}+a_{2}^{2}\omega^{6}} = -\frac{1}{2}$$

$$r_{0} = \frac{0.5(\alpha_{1}-2\alpha_{0}\alpha_{2})}{\frac{0.5(\alpha_{1}-2\alpha_{0}\alpha_{2})}{\frac{0.5(\alpha_{1}-2\alpha_{0}\alpha_{2})}{\frac{0.5(\alpha_{2}-2\alpha_{0}\alpha_{2})}{\frac{0.5(\alpha_$$

$$-b_{0}r_{1}q_{1} + b_{1}r_{0}q_{2} = -0.5 q_{0}^{2}$$

$$-b_{0}r_{1}q_{1} = -0.5q_{0}^{2} = b_{0}r_{0}q_{2}$$

$$r_{1} = -0.5q_{0}^{2} = b_{0}r_{0}q_{2}$$

$$-b_{0}r_{0}q_{1} = -0.5q_{0}^{2} = b_{0}r_{0}q_{2}$$

... Kto vie Zi som sa nepomylil ...

Prenosova Funkcia - kjuadlo (cvičenie PCH)

pracovný bod Mpg=4 ±0,8

na zadaní: K

pre tento riadený system

je/nie je

možne navrhnýt PI regulator

metodou optimálneho modulu ?

lepsia aproximacia
dyn. vlastnosti pri:

$$K = 6555$$

 $(T_S+1)(T_{2S}+1)$
 $T_1 = 0,5209$
 $T_2 = 0,2084$

$$\Rightarrow \frac{6,555}{0,1085} + 0,7293 + 1$$

Tre riadens sys. danj touto prenosovou funkciou...