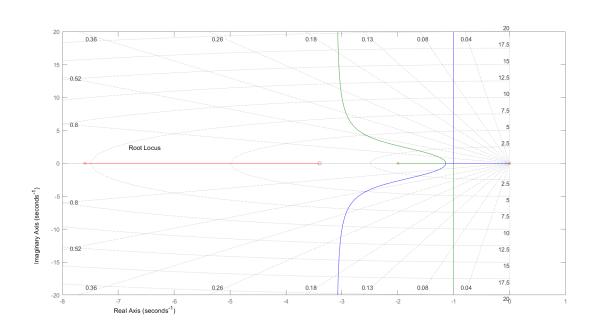
得校正网络 GCCS)= 8.02 St3.4 St7.6

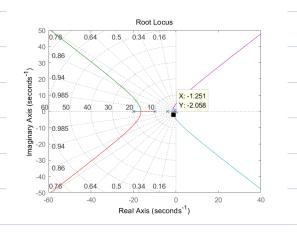


校正前后的根轨迹

$$6p < 20\%$$
, $t_{S} \leq 2.6S \implies 8 = 0.5$, $W_{n} = 2.5 \text{ pools}$, $S_{1,2} = -1.25 \pm 1.25 \times 15$
 $477786 + k_{v} = \frac{800 + v}{4 \times 10 \times 20} = k_{v} = 12$

$$\beta = \frac{12}{1.86} = 6.45$$

洗取 $P_c = 0.02$, $2c = P_c \cdot \beta = 0.129$
校正公徳 Gc(S) = $\frac{S+0.129}{S+0.02}$



181145 6p≤20% ts ≤105 (A=005) => 8 > 045, 8 vn ≥03

在原备泡柜就做上选取 S1,1=-0.3328±0.5792j

对位多二0.4982,多Wn=0.3328 满足繁花设分,对应开环馆益分片。

开环熔益1-5

$$\beta = \frac{\kappa}{\kappa} = 9.6$$

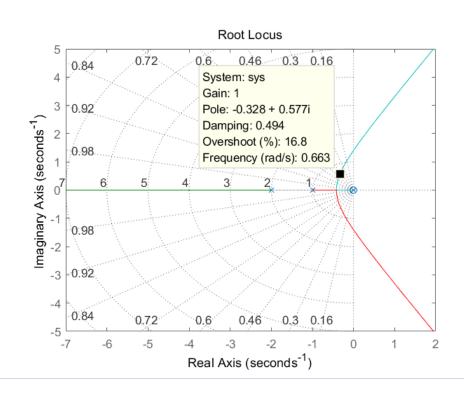
国ス Pc=-a001, 2c= BPc=-0.0096

原系统开环增益片二1, 元= =5=5

校正保节
$$G_{C}(S) = \frac{5(104.2St1)}{1000St1}$$

校后 125 27 应51,2 = -0.328 +0.577,j

g = 0.494, $g w_n = 0.328$ Gp = 16.8%



HW-5 190410102 自动/以刊 方充

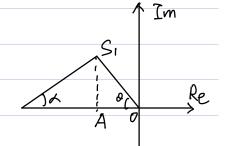
1014.6

起辦校正的 Ga(s)= (0,15+1)2

10+120=180 /30=30°

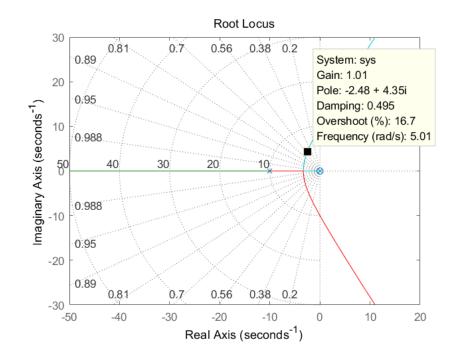
$$\sqrt{3}x = \sqrt{3}(10-x)/\sqrt{3}x = 2\sqrt{5}$$

即朝极点 Si= -2.5+4.331



$$\beta = \frac{K}{F_0} = \frac{50}{3.75} = 13.33$$

REARE
$$G_{C2}(S) = \frac{S + 0.01}{S + \frac{0.01}{1333}} = 13.33 \frac{100St)}{1330St1}$$



何47

考虑沿小洲环根点移至负突轴 P4=-20, P1=0

$$\theta = 150^{\circ}$$
, $d = \arctan \frac{\sqrt{3}}{17} = 5.83^{\circ}$

$$\beta = \arctan \frac{\sqrt{3}}{7} \approx 13.89^{\circ}$$

牙特性方程立港足

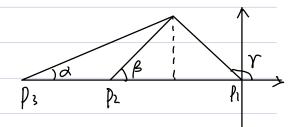
$$=0.2(S-p_2)(S-p_3)=0.2(S^2+22.55S+125S)$$

$$k_1 = \frac{k}{0.96} = 1.72$$

<i>ለ</i> የሀ ተረ	161	148
----------------	-----	-----

两内循环 G(S)= 20 0.5S2+(10×+1)S+20β , P,=0

取及=-5, Y=135°, β = 33.69° 以身+Y=180° %拿以=11.31° 以拿 β 3=-12



G.特伦为军 0.552+(10×+1)S+20β

=0.5(S+12)(S+5)

爆 B=115, d=0.75

随衛件 (1 20 15151+12||S1+15| 151| = 1

得上=2.6

最终得到结果 d=0.75, B=1.5, K=2.6