Servo Pos. tim Catal

4/12/25

Agenda:

1) Block diagram & TF

2) Prop. Control

· 2nd - Order Sys behavis

· Root-locus

3) Re-Time & aushut

GG (5) = C Js2+bs

J=1, b=0.104, c=0.2

Vess Gorss Goss

G & O closed open

05->



On >

v=K(Os-On) -s

Grs (2)-> KVCS) Go(S) Oms

 $= > Hcss = \frac{KG}{1+KG} = \frac{KC}{Js^2 + bs + Kc}$ 

0.2 k 52+01045+0.2k

 $= \frac{\omega_{n}^{2}}{5^{2} + 25\omega_{n}^{2} + \omega_{n}^{2}}$ 

continued on Matlab (see GitHub)