Control system Hanan Hadan 2018U1C3087
Manan 41adan 2018 01 C3 087
Book ptot
H(s) = 100 s+1 = 100 (s+1)
H(s) = 100 s+1 = 100 (s+1) $(\text{s+10}) (\text{s+100}) = s^2 + 100 (\text{s+1})$
solution? 1) Rewaits in proper form
th(s) = 100 s+1 = 0.1 (s+1) (s/10+1) (s/10+1)
2) Seperate the transfer function constituent parts
Constant 0:1
poll at 3 = -10
pole at s=-110
zero at s=-1
3) constant = 0 -20dB phase is constant at 0 dogres
polie = 10 ral/sec . OdB upto break v , the drops off with a
slope of -20 dr/sec
phase is a celto 1/10 of break V, the linearly drops dow to -90 dy
pole at 100 rad/sec - 0 ds upto break v, then drops
off with a slope of -20db/sec.
phas is o degress apt 1/10 of break v then
drops lenealy to -90° at 10 time this break v
zero at I rad see. OdB upto br v, then risk s-at
20 db/dec. The pass is to degree up to 1/10 of break v
the rules to 900, at 10t the Upr feepheney.