Design Requirements - percent overshoot < 5% And region in Splane where all 2nd order systems beet these requirements. - settling time < 25. m P.O. < 5 en(x) we Br < 5 e BT LO.05 f(sa) x, < x2 f(x1) & f(x2) Peril - BT 2 ln 005 - B < 2005 B> - lu 0.05 x1 < X2 A(x1) A(x2) x>0.95B fact fled The Reg. T5 < 2 # < 2 4 < X 240

Design Requirements

Reference discharge in frequency Design a prompe P(s) = 5+10. Design a controller But meets this requirement.

For discretione rejection, need S(5)P(s)B) & be small.

I want it snall everywhere. pcol Design S(s) so that it lasts like 5(5) Mishon Com L(s) = 10 = 10 PG/KG) = 10 s K(s) = 10 (5+10)