Name-:Tejas chinchole

div-:L

Roll no-:13

Practical name-:Pole zero analysis of z transform

clc;

close all;

b=[1];

a=[1 -0.5 ];

[b,a]=eqtflength(b,a);

[z,p,k]=tf2zp(b,a);

subplot(3,2,1)

zplane(z,p)

syms z

f=z/(z-0.5);

c=iztrans(f);

subplot(3,2,2)

ezplot(c)

b1=[1];

a1=[1 -1 ];

[b1,a1]=eqtflength(b1,a1);

[z,p,k]=tf2zp(b1,a1);

subplot(3,2,3)

zplane(z,p)

syms z

fms=z/(z-1);

cms=iztrans(fms);

subplot(3,2,4)

ezplot(cms)

b2=[1];

a2=[1 -5 ];

[b2,a2]=eqtflength(b2,a2);

[z,p,k]=tf2zp(b2,a2);

subplot(3,2,5)

zplane(z,p)

syms z

fu=z/(z-5);

cu=iztrans(fu);

subplot(3,2,6)

ezplot(cu)