for i=1:length(b1)

J = b1(i)+ Jm;

c = b1(i)+ D;

SimOut = sim('Second\_connected');

k(i) = sum((w\_L\*pi/180 - Theta).^2);

end

figure(20)

plot(b1,k);

title('cost function for second order');

ts\_min = min(k);

for i=1:length(b1)

if k(i)== ts\_min

J = b1(i)+ Jm;

c = b1(i)+ D;

end

end

