
Presentación en vídeo en:

<http://personales.upv.es/asala/YT/V/ef1.html>

<http://personales.upv.es/asala/YT/V/ef2.html>

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```
%acordarse de "pkg load control" y "more off"
%para OCTAVE
set (0, "defaultlinelength", 3);
s=tf('s');

G=3/(s^2+0.25*s+1);

f_hold=1; f_nohold=0;

%estilo mixed sensitivity versus disturb. weight...

Werr=2/(s+1);
Wu=tf(0.1);
```

simulacion 1, h2 versus hinf mismos pesos.

```
disp('Control Optimo H2')
calculaysimulacontrolador(G,Werr,Wu,2,f_nohold,3)

disp('Control Optimo Hinf')
calculaysimulacontrolador(G,Werr,Wu,inf,f_hold,3)

Control Optimo H2

GAMMA =

    1.3871

2 states removed.

errordeposicion =

    0.0493

2 states removed.
Control Optimo Hinf

GAMMA =

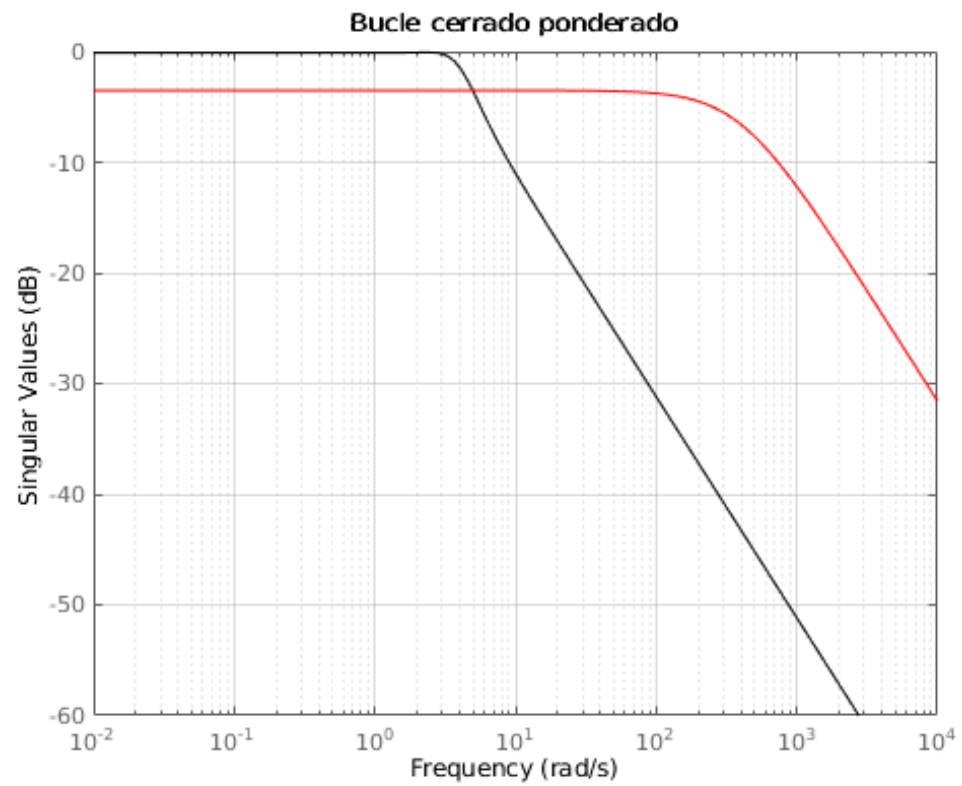
    0.6679
```

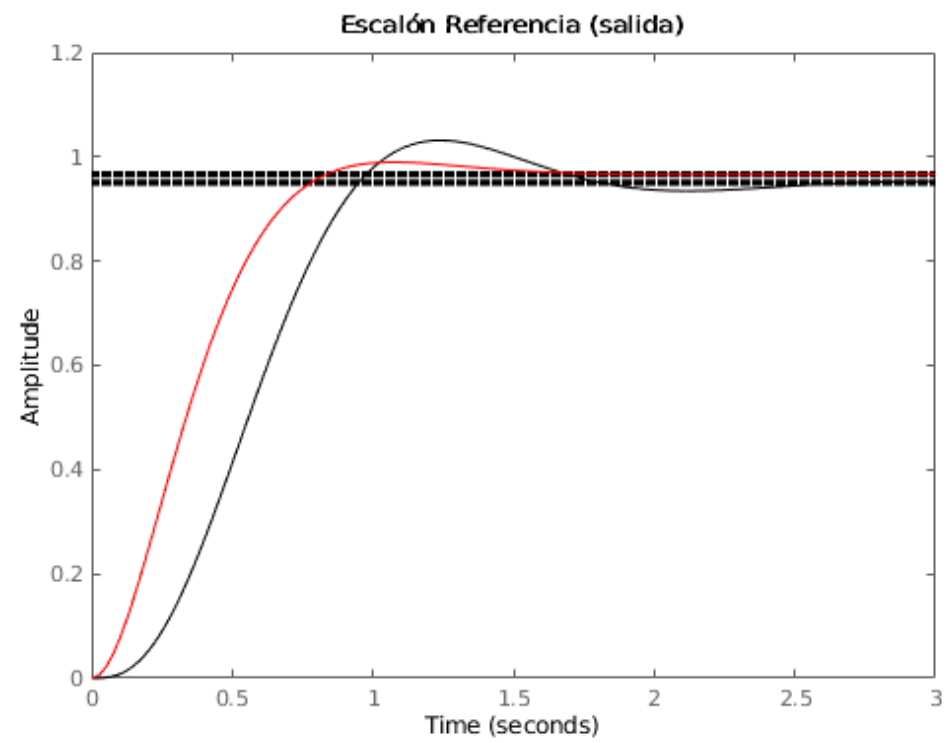
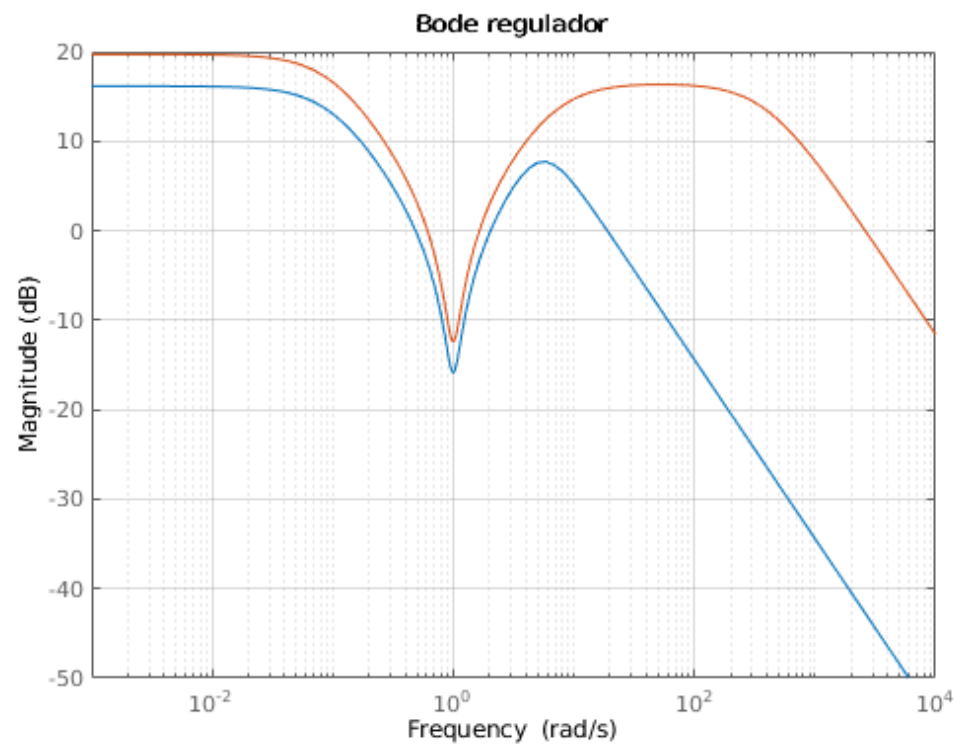
2 states removed.

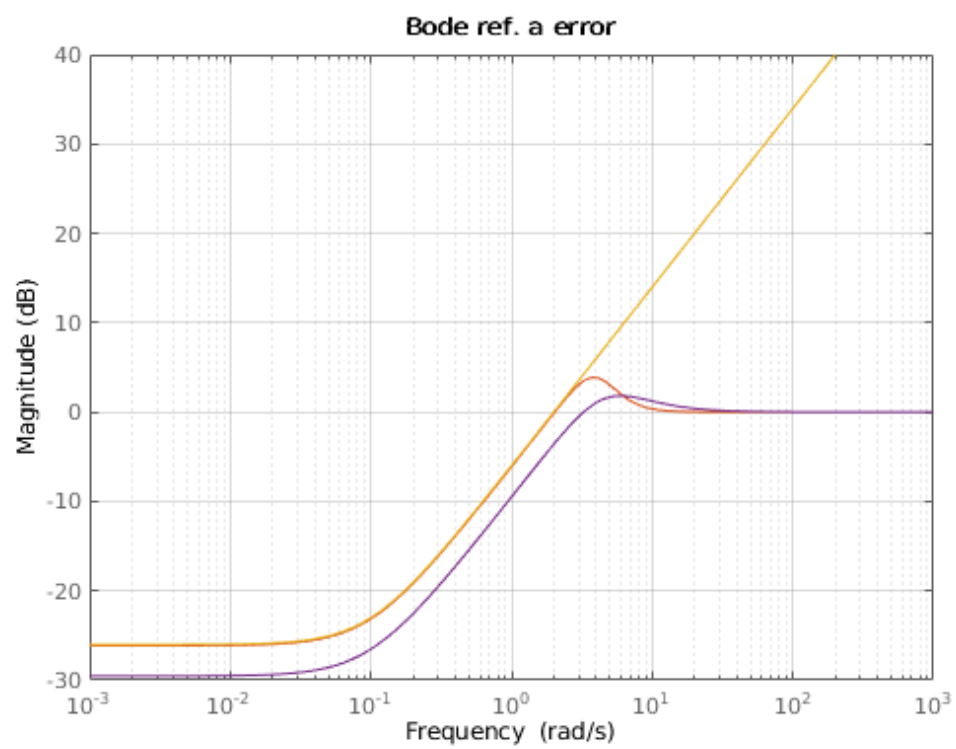
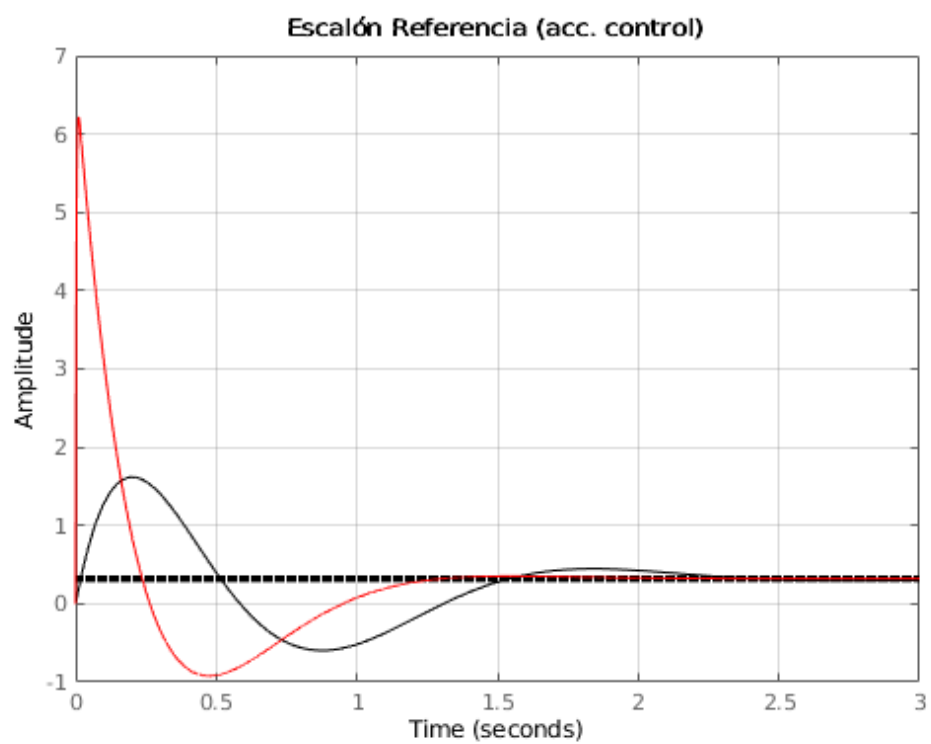
errordeposicion =

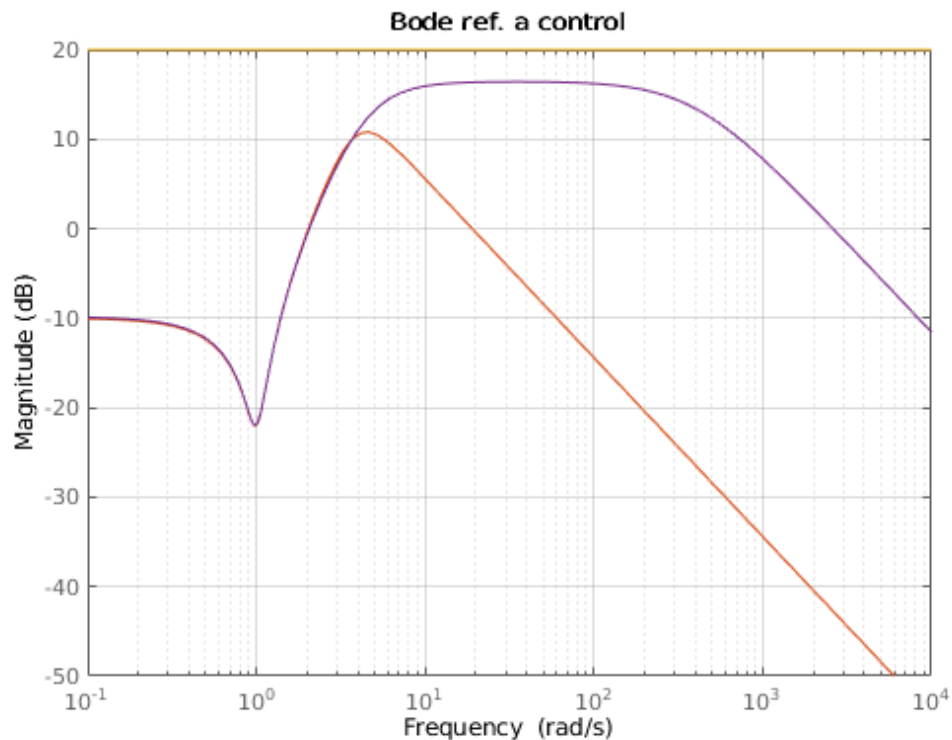
0.0334

2 states removed.









simulacion todo hinf... cambiamos pesos

```
%hinf, asi el "1" tiene info de por encima, por debajo de Werr^-1,
Wu^-1
```

```
calculaysimulacontrolador(G,Werr,Wu,inf,f_nohold,4)
calculaysimulacontrolador(G,Werr,Wu*10,inf,f_hold,4)
```

ahora algo de peso en frecuencia del error

```
WWe=Werr+200/(140*s+1);
figure(10)
bodemag(inv(Werr), inv(WWe))
```

```
calculaysimulacontrolador(G,Werr,Wu,inf,f_nohold,5) %original
calculaysimulacontrolador(G,WWe,Wu,inf,f_hold,5) %modificado
```

```
GAMMA =
```

```
0.6679
```

```
2 states removed.
```

```
errordeposicion =
```

0.0334

2 states removed.

GAMMA =

1.3660

2 states removed.

errordeposicion =

0.0665

2 states removed.

GAMMA =

0.6679

2 states removed.

errordeposicion =

0.0334

2 states removed.

GAMMA =

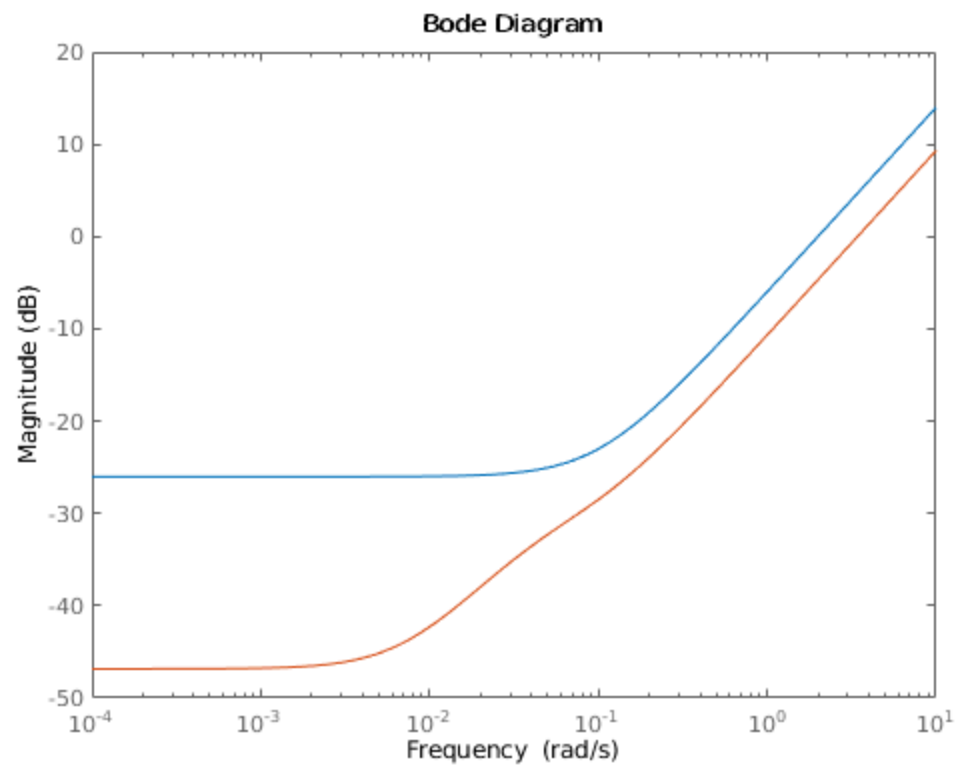
0.9678

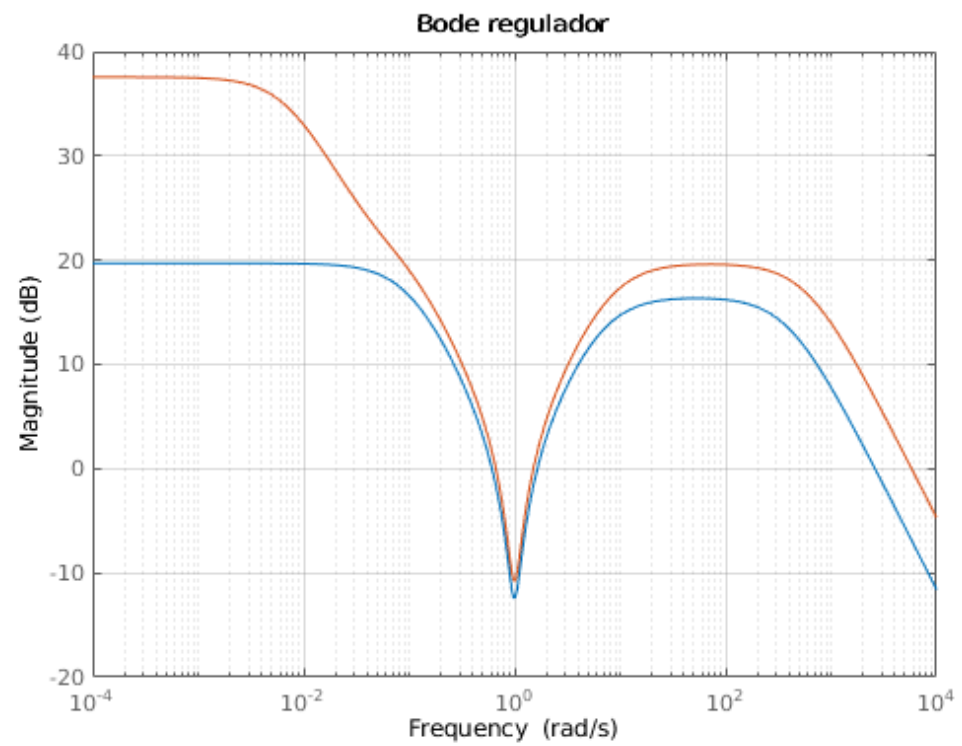
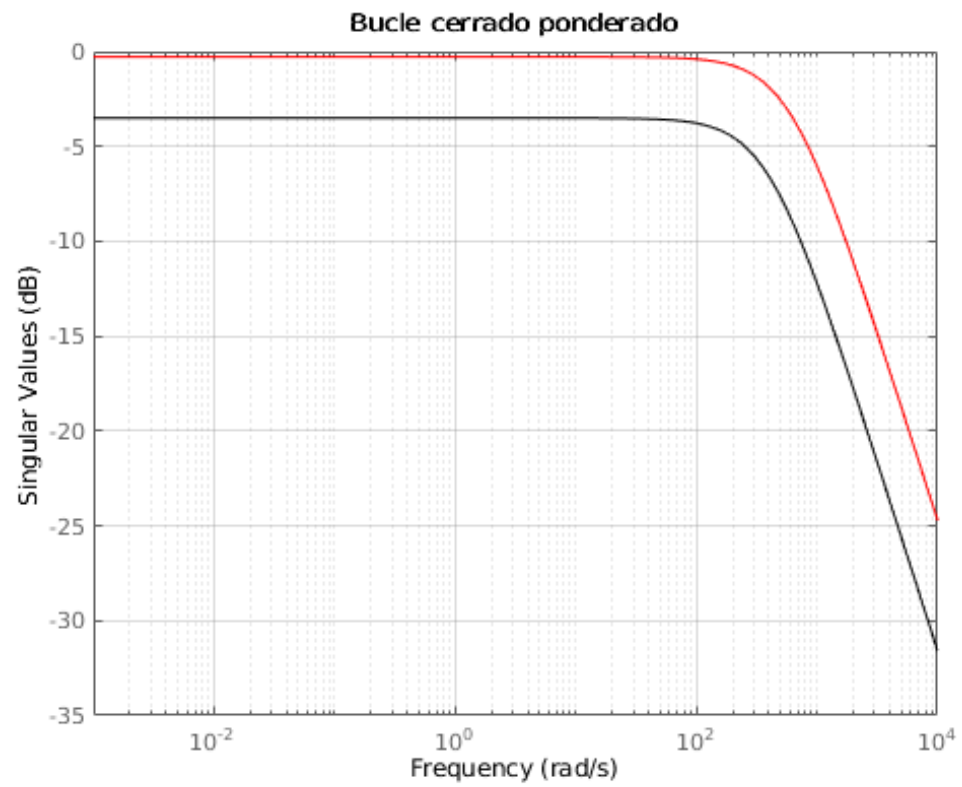
2 states removed.

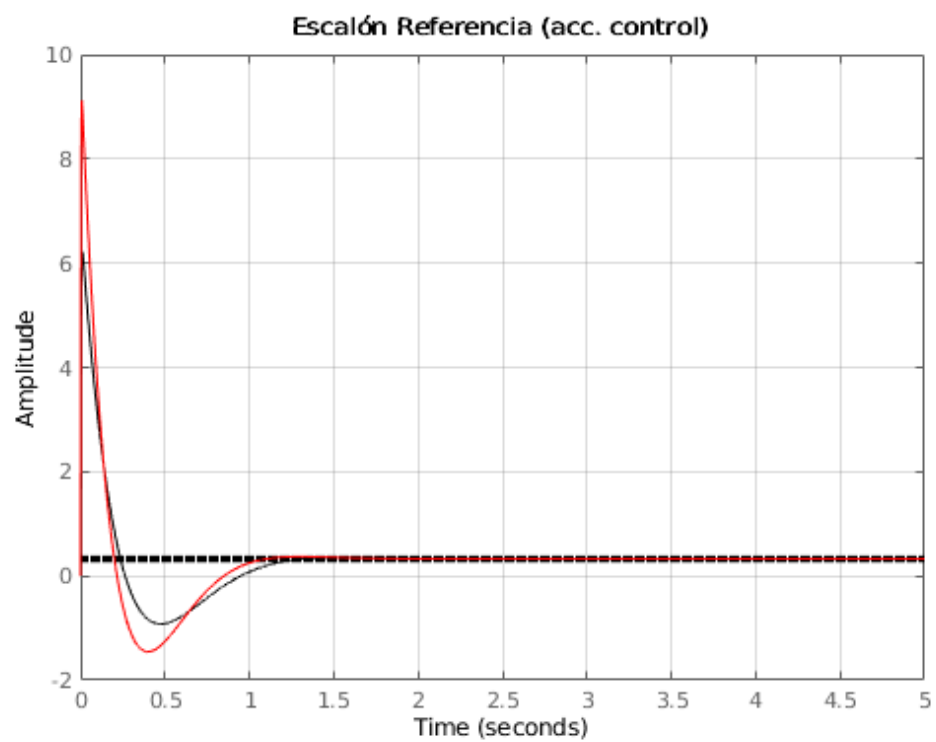
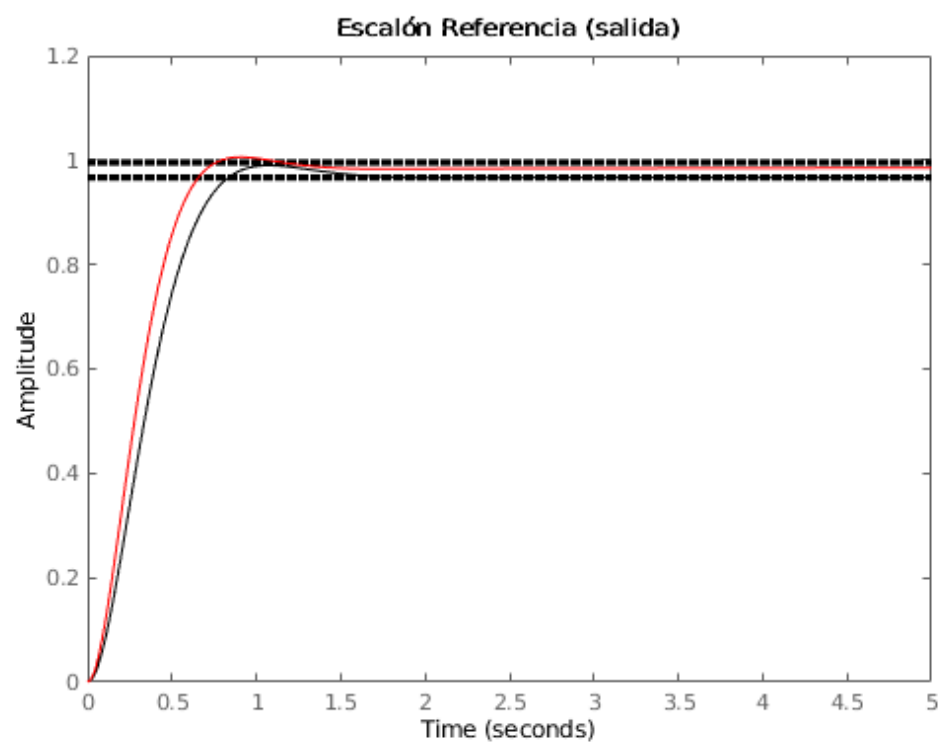
errordeposicion =

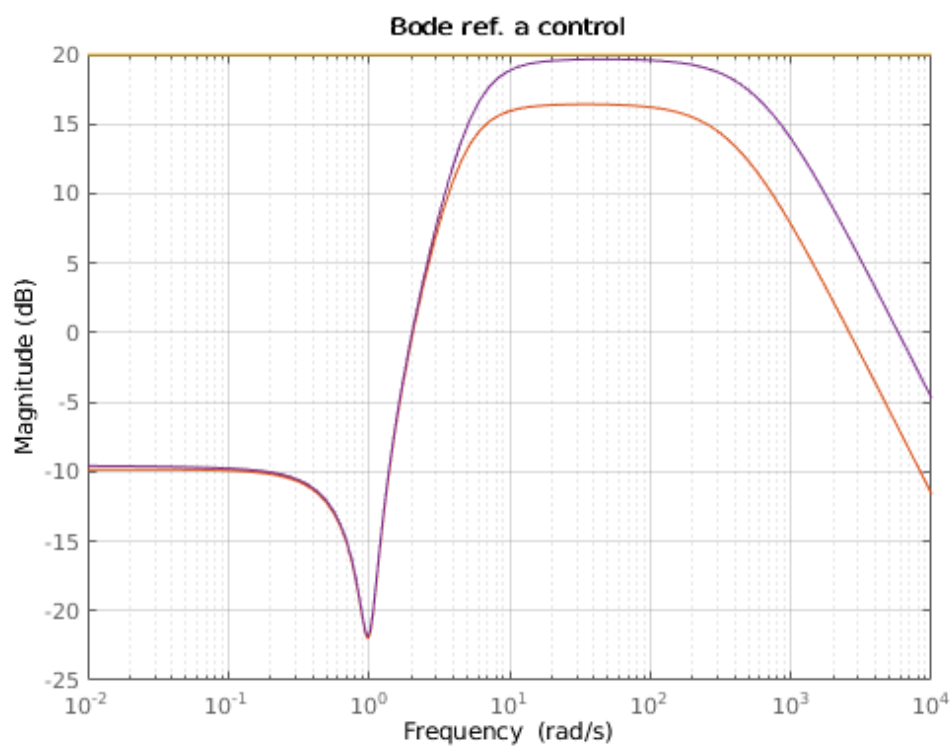
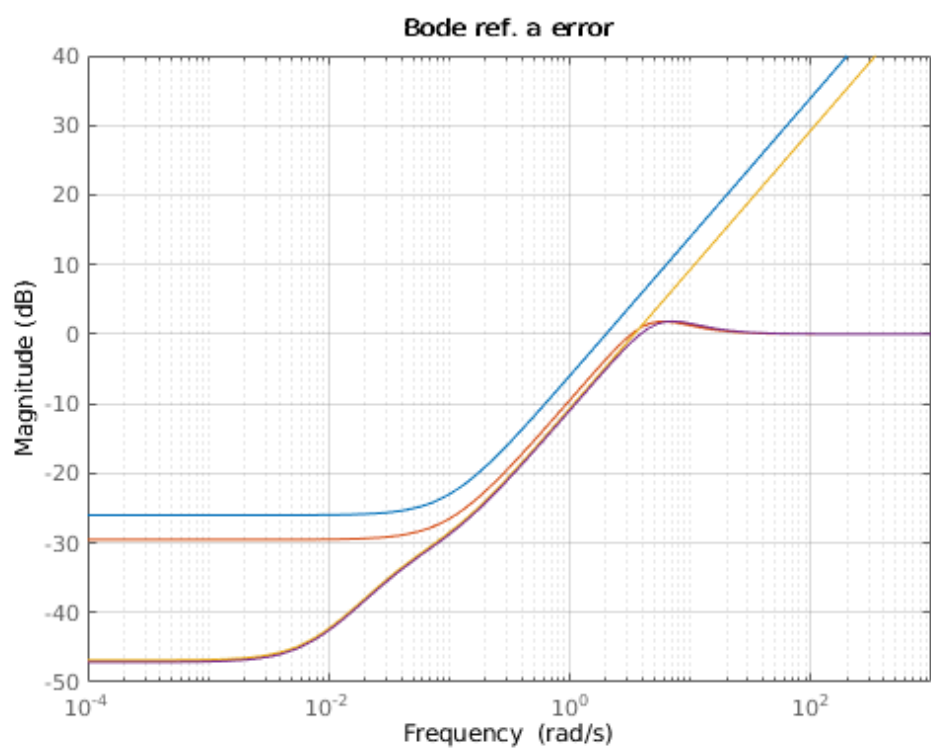
0.0044

2 states removed.









ultima prueba

```
WWe=30*(250/30*s+1)/(250*s+1);  
figure(10)  
bodemag(inv(WWe))  
calculaysimulacontrolador(G,Werr,Wu,inf,f_nohold,5) %original  
calculaysimulacontrolador(G,Werr*WWe,Wu,inf,f_hold,5) %modificado
```

```
GAMMA =
```

```
0.6679
```

```
2 states removed.
```

```
errordeposicion =
```

```
0.0334
```

```
2 states removed.
```

```
GAMMA =
```

```
0.6851
```

```
2 states removed.
```

```
errordeposicion =
```

```
0.0011
```

```
2 states removed.
```

