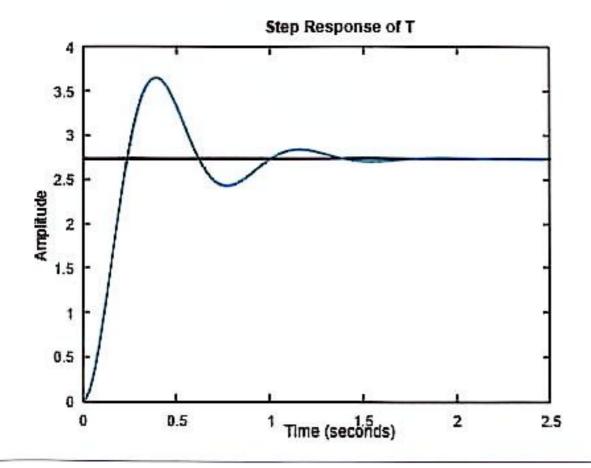
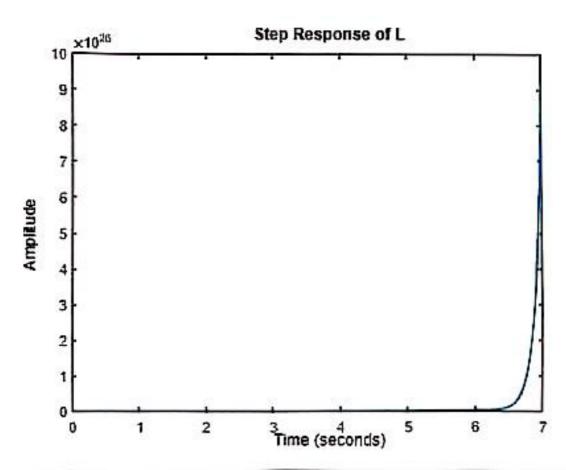
الماماه على الماماه ع TISI , Kun , 47 201601 1 155 3000 /mp = 100 e -35/3 = EE, " > 3 +0109N3 = 0104V (3=-184 x. → tss = 1,81 -> lon= 14 -> lon=11, W 1+L151 = Kwn => Kwn (1+L151) = L151/5+ +3wn5+wn) -> L1515 Kwn 40rd 5+07rd 5+0,9EVS-VE,49 39,0 ; joss/1 -> li 355(H a Li 5 Y(5) a hi 5+T(5) = 1/dr. -> Karn = 1/dA -> K=1/dA $R(S) \rightarrow 0 \rightarrow K_{Ra} \rightarrow 0 \rightarrow K_{Ra$ of Toles1 $Td=0 \rightarrow \frac{\omega(s)}{R(s)} = T(s)$ = 1/2 - 1/5/ = 1/5/ = 1/5/ = 1/5/ Styn 12, alor 3 -> 61515 -18 -5+18 18/12/20 - in = = As = Sin List = 1/2 51

Scanned with CamScanner

```
= tf('5');
= 203.5 / (5^2 + 5.647\%5 + 74.69):
L = T / (1 - T);
L = minreal(L);
figure;
step(T);
title( Step Response of T );
rigure;
step(L);
title("Step Response of L");
```

Continuous-time transfer function. Model Properties





```
s = tf('s')
T1 = 0.4/(s + 0.4)
T2 = 0.4/(s + 0.8)
hold on
step(T1)
step(T2)
legend
damp(T2)
damp(T1)
Kp_{open} = dcgain(T2);
ess open = 1 / (1 + Kp open);
Kp closed = dcgain(T1);
ess closed = 1 / (1 + Kp \ closed);
fprintf('4.% : باز: ۱/n', ess_open);
fprintf('4.% : بسته حلقه بسته: ۴\n', ess_closed);
```

Continuous-time transfer function. Model Properties

T1 =

8.4

s + 0.4

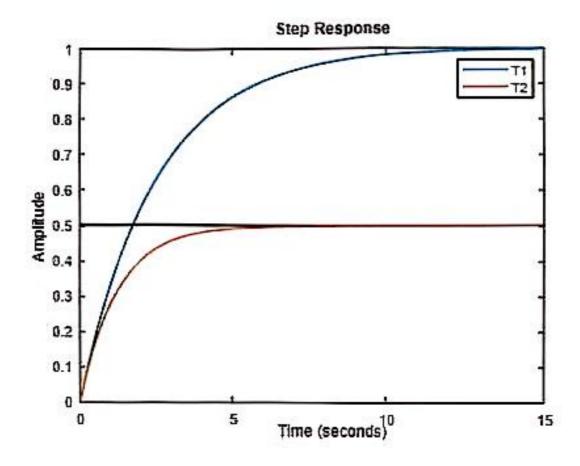
Continuous-time transfer function. Model Properties

12 =

9.4

s + 0.8

Continuous-time transfer function.
Model Properties



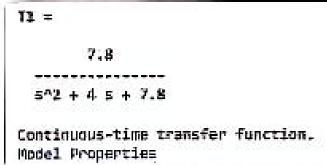
Pole	Damping	Frequency (rad/seconds)	Time Constant (seconds)
-8.00e-01	1.00e+00	8.00e-01	1.25e+00
Pole	Damping	Frequency (rad/seconds)	Time Constant (seconds)
-4.08e-01	1.00e+00	4.08e-01	2.50e+08
واز: 0.6667	سيستم حلقه		
8.588B : 41-4	مبستع حلته		

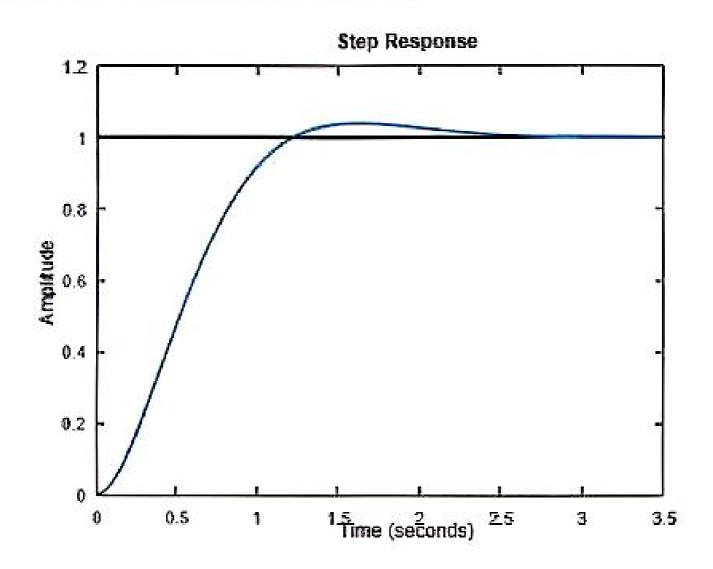
من الم وجود في رون على المرون على المرون الم T151 = 4151 451 5/1515 T1515 T1515 14 -> Wns & +36nc 3010 /Mps1-03/ 35/d Mps14/1/ Justie tys 4,4 5 114 - 16,60 TISIS K/SSTK -> 1.mp = INE ST-3" = SI -> 3=0/VOV 25 5 + 3 wn 5 30/100 Wn ~ 4/1 > K=W" > K~ N ح) حافقوا دا واهم است عقوم بر مسم نا زمستا الم 5:1/4p= 21, 7 Milmp= E,E 11/4=2 -> T151= E Wn54 161=5125+E-> 55.4 10001 الم العرك على مراز فراى عَصراء الله على عَصراء الله المعرف فراهي عَمراء الله المعرف فراهي عاملا

$$s = tf(s)$$

$$T1 = 7.8/(s^2 + 4^{\circ}s + 7.8)$$

Continuous-time transfer function. Model Properties





1+ num(5) = -B - num(5) = 1+B

det(5) = B R - Colog 2: c B

-k+ B(1-K) Krung y 1800g2 - 1 = 1+ (-K(1+13)) I = | ectide, x151=1/3 Tisi = Visi = 146) , lietteling (6) 3,0; 1 E191=1/5-451 -> E191=1/5 (1- 7=1(Ais+1))
X191- (Bj 5+1) (A,5+1) = 1+ (A,+Ap/5+ (A)+Ap/5) + -31, 446/11 E151= 1 (B;5+1)- T(A;5+1) Elsis 5/2 Bj-Zail ZBj-Z Ai (2 Elo)