```
clear all;
clc;
vin=12;
D=0.75;
L1=500e-6;
L2=500e-6;
C1=50e-6;
C2=50e-6;
C3=100e-6;
R=100;
IL1=1.08;
IL2=1.08;
VC1=vin/(1-D);
VC2=(2-D)*vin/(1-D);
VC3=((3-D)/(1-D))*vin;
a=[0  0 -(1-D)/(L1) 0  0; 0  0  0 (1-D)/(L2) -(1-D)/(L2);(1-2*D)/C1  -D/C1  0  0  0; D/C2 (-1+2*D)/C2  0  0 0; (1-D)/C3  0  0  0  -1/(R*C3)]
b=[IL1*(-2/C1-1/C3+1/C2); IL2*(2/C2-1/C1); VC1*(1/(L1)); VC2*(-1/(L2)); VC3*1/(L2)]
c=[0  0  0  0  1]
d=[0]
ulables=['d'];
ylables=['Vo'];
xlables=['iL1 iL2 vc1 vc2 vc3'];
printsys(a,b,c,d,ulables,ylables,xlables)
disp (["Transfer function in s-domain"])
disp (['Vo/d (s)'])
TFb=zpk(tf(ss(a,b(:,1),c,[0])))
```