```
s = tf("s");

Gm = 1/s;

Gs = 1/10/s;

Ge = ((0.16*s^3)+240*s)/((0.008*s^4)+(0.48*s^3)+144*s);

Gh = 1152/((4*s^4)+(48*s^3)+(240*s^2)+576*s+576);
   systemnames = 'Gh Gm Gs Ge'; %Block name only
inputvar = '[wh;we;fm;fs]';
outputvar = '[Gm;Gs;Ge]'; %Strangely, the system outputs are just the name
input_to_Gh = '[wh]';
input_to_Gm = '[Gh-fm]';
input_to_Gs = '[Ge-fs]';
input_to_Ge = '[we]';
cleanupsysic = 'yes'; %This drops all the useless variables from workspace
P = sysic;
    P = sysic;
    P_ss = ss(P)
    P_ss =
        Α =
                                            x2
-7.5
0
4
                                                              x3
-4.5
0
                                                                                                                                                                                             ×10
                                                                                                                                                                                                               ×11
                                                                                                                                                                                                                                 x12
                                                                                                                                                                                                                                                   x13
                                                                                                                                                                                                                                                                     x14
                                                                              x4
-2.25
                            x1
-12
8
0
0
0
0
0
         x1
x2
x3
x4
x5
x6
x7
x8
x9
x10
x11
x12
x13
                                                                            0.0625
                                                                                                                      -60 3.02e-14
16 0
0 32
0 0
                                                                                                                                                    -35.16
0
                                                                                                                                                                                              -60 3.02e-14
16 0
0 32
0 0
                                                                                                                                                                                                                             -35.16
          ×14
   [A,B,C,D] = ssdata(P_ss);
   B1 = B(:,1:3) %14x3
     B1 = 14×3
                              0
0
0
0
0
2
                               8
   B2 = B(:,4) %14x1
     B2 = 14×1
                   0 0 0
C1 = C(1:2,:) %2x14
     C1 = 2×14
                                                                                                                          0 0
0 0.0625
                                                                                                                                                                0 0
0 2.9297
                                                                                                                                                                                                                                            0 -1.0000 0
0 0 -0.4000
```

D21 is all 0, which make the ARE unsolvable.