```
clc
clear
close all

A = [0 0 1 0; 0 0 0 1; -1/11 1/11 -0.1/11 0.1/11; 1/11 -1/11 0.1/11 -0.1/11];
B = [0; 0; 12/143; -1/143];
C = [0 1 0 0];
D = 0;
[num, den] = ss2tf(A,B,C,D);
sys = tf(num, den)
poles = pole(sys)
zeros = zero(sys)
```

```
sys =

            -0.006993 s^2 + 0.0006993 s + 0.006993
  ------------------------------------------------------
  s^4 + 0.01818 s^3 + 0.1818 s^2 + 1.076e-17 s - 1.029e-34

Continuous-time transfer function.


poles =

  -0.0091 + 0.4263i
  -0.0091 - 0.4263i
   0.0000 + 0.0000i
  -0.0000 + 0.0000i


zeros =

   -0.9512
    1.0512
```

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