

Tugas Analisis Sinyal Biomedis

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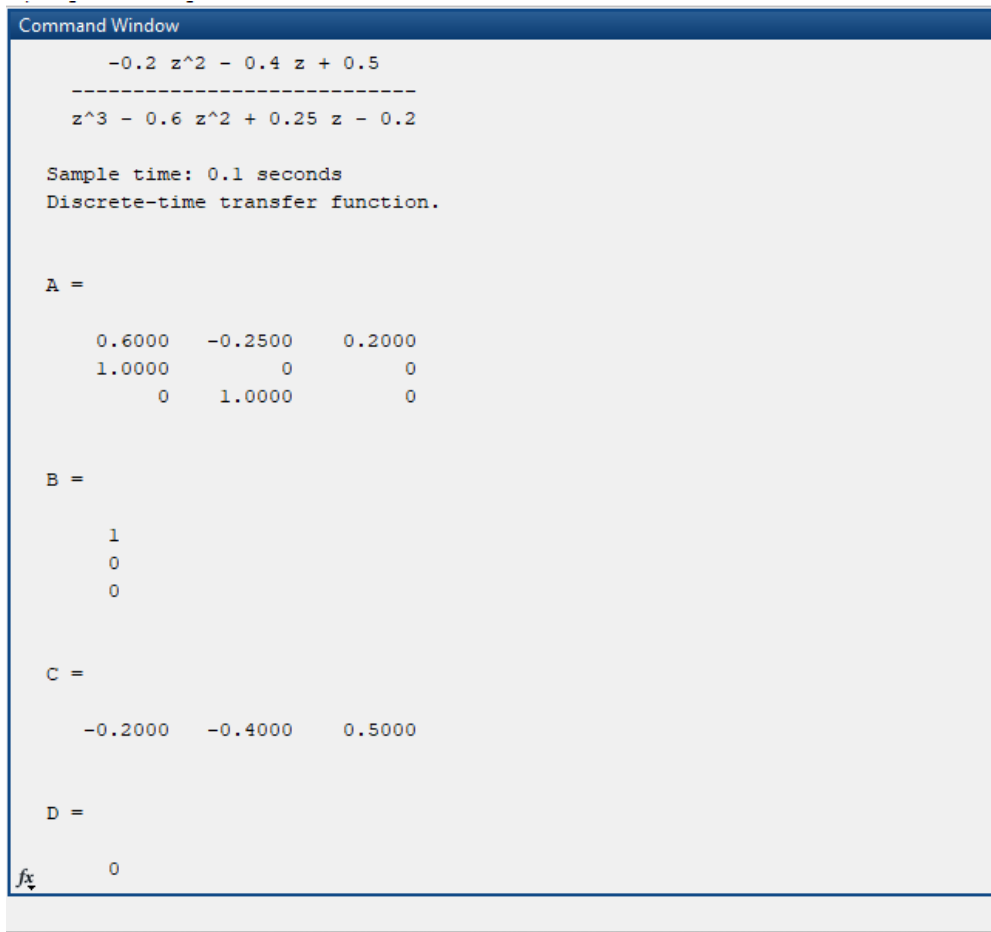
NIM:081711733002

Dari jurnal yang diketahui persamaan iir orde 3 nya, maka dapat dilakukan convert dari transfer function menuju ke state space model

```
clc;clear all;close all;

bf=[-0.2 -0.4 0.5];
af=[1 -0.6 0.25 -0.2];
numerator = [-0.2,-0.4,0.5];
denum=[1,-0.6,0.25,-0.2];
ts= 0.1;
sys=tf(numerator,denum,ts)
[A,B,C,D]=tf2ss(bf,af)
```

Hasil:



```
Command Window

      -0.2 z^2 - 0.4 z + 0.5
      -----
      z^3 - 0.6 z^2 + 0.25 z - 0.2

Sample time: 0.1 seconds
Discrete-time transfer function.

A =

    0.6000    -0.2500     0.2000
    1.0000         0         0
         0     1.0000         0

B =

     1
     0
     0

C =

   -0.2000   -0.4000    0.5000

D =

     0
```