# FUNCTION USING SIGNAL FLOW GRAPH AND MASS

## THEORY

BIGFLOW solves Signal Flow Graph by matrix modeling and no SYS=SIGFLOW (Q. P) calculates the system transfer (unotigonal sys=X/U=inv()-Q)\*P

This method can be applied to different courses that deal waters different courses, people use different methods to describe the a PRETTY Pretty print a symbolic expression. PRETTY (5) process a format that resembles type-set mathematics.

#### Q =

[ 0, 0, 0, 0, 0, 0, 0, 0, 0] [ 1, 0, -1, 0, 1, 0, 0, 0, 0] [ 0, 01, 0, 0, 0, 0, 0, 0, 0] [ 1, 0, 1, 0, -1, 0, 0, 0, 0] [ 0, 0, 0, 02, 0, 0, 0, 0, 0] [ 0, 0, 0, 0, 0, 0, 0, 0] [ 0, 0, 0, 0, 0, 0, 0, 0]

#### CODE

#yma (-) G2 (1) K Q(3,2) = Q(); Q(2,1) = 1;Q(2,3) = 1;Q(2,5) = -1; Q(4,3) = 1;Q(4,1) = 1;Q(4,5) = -1; Q(5,4) = Q(2,5) = 1;Q(6,7) = -1; Q(5,3) = 1 \*Q(6,5) = 1;Q(6,7) = -1; Q(7,6) = Q(3;U(6,7) = 1)

# PROGRAM 4: WRITE A PROGRAM IN MATLAB TO J. FUNCTION USING SIGNAL FLOW GRAPH AND MAS:

### THEORY

**BIGFLOW** solves Signal Flow Graph by matrix modeling and results SYS=SIGFLOW (Q, P) calculates the system transfer (unphoning sys=X/U=inv(1-Q)\*P

This method can be applied to different courses that  $(|x_n|) \otimes_{\mathbb{R}^{2n-1}}$  different courses, people use different methods in describe  $(|x_n|) \otimes_{\mathbb{R}^{2n-1}}$  Pretty print a symbolic expression. PRETTY  $(|x_n|)$  prints  $(|x_n|)$  a formal that resembles type-set mathematics.

0 =

| 0, 0, 0, 0, 0, 0, 0, 0| [ 1, 0, -1, 0, -1, 0, 0, 0] [ 0, 0], 0, 0, 0, 0, 0, 0] [ 1, 0, 1, 0, -1, 0, 0, 0] [ 0, 0, 0, 02, 0, 0, 0, 0] [ 0, 0, 1, 0, 1, 0, -1, 0] [ 0, 0, 0, 0, 0, 0, K, 0]

#### CODE:

Pyrms 6.1 G3 Q3 K Q(3,2)=Q1; Q(3,1)=1:Q(2,2)=:1,Q(2,5)=:1; Q(4.3)=1:Q(4,1)=1;Q(4,5)=:1; Q(5,4)=Q2; Q(6.3)=1:Q(6,5)=1:Q(6,7)=-1; Q(6.3)=1:Q(6,5)=1:Q(6,7)=-1;

```
1/(C2+1+G1+2**.2****
                                  G1/(G2+1+G(1+2**)-2**)...
                             (2*G1+1)/(G2+1+G1+2*C2*C)
                         12*G1+11*G2/{G2+1+G1+2*€*2*€*3**€*
 [G2+G1+2*G2*G1]/(G3*G2+G3+G3*G1+2*G3*G2*G1+G2*+1+G4+2*63
2+G1+2*G2*G1)/(G3*G2+G3+G3*G1+2*G3*G2*G1+G2+1+G1+2*C-2*C-2
2+G1+2*G2*G1)/(G3*G2+G3+G3*G1+2*G3*G2*G1+G2+1+G1+2*C4**;
```

2+G1+2\*G2\*G1)/(G3\*G2+G3+G3\*G1+2\*G3\*G2\*G1+G2+1+G1+2\*€2\*G4;

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