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17/ENG01/025

commandwindow

clear

clc

f=[1,-2,-1,3;2,3,0,1;1,0,-4,-2;0,-1,3,1]

eig(f)

since there are positive eigen values present, the system is unstable

 Solution

f =

 1 -2 -1 3

 2 3 0 1

 1 0 -4 -2

 0 -1 3 1

ans =

 2.4323 + 2.2437i

 2.4323 - 2.2437i

 -1.9323 + 1.7651i

 -1.9323 - 1.7651i