

Matrix A and Matrix B

Matrix A	Matrix B
[[-0.0125 -0.0395 -0.046 0. 0. 0.]	[[0.]
[0.0783 0. 0.9412 0. 0. 0.]	[0.3881]
[-0.0783 0. -0.9412 1. 0. 0.]	[-0.3881]
[0. 0. -5.2038 -0.9312 0. 0.]	[-28.0807]
[0. 0. 0. 1. 0. 0.]	[0.]
[0. 248.3417 0. 0. 0. 0.]]	[0.]]

Matrix C and Matrix D

Matrix C	Matrix D
[[1. 0. 0. 0. 0. 0.]	[[0.]
[0. 1. 0. 0. 0. 0.]	[0.]
[0. 0. 1. 0. 0. 0.]	[0.]
[0. 0. 0. 1. 0. 0.]	[0.]
[0. 0. 0. 0. 1. 0.]	[0.]
[0. 0. 0. 0. 0. 1.]]	[0.]]

Eigen Values

[0. +0.j 0. +0.j -0.9366+2.2807j -0.9366-2.2807j -0.0058+0.0511j -0.0058-0.0511j]

Damping Table

[[0. +0.j 0. +0.j 2.4655+0.j 2.4655+0.j 0.0515+0.j 0.0515+0.j]
[nan+0.j nan+0.j 0.3799+0.j 0.3799+0.j 0.1128+0.j 0.1128+0.j]
[0. +0.j 0. +0.j -0.9366+2.2807j -0.9366-2.2807j -0.0058+0.0511j -0.0058-0.0511j]]]