

Matrix A and Matrix B

Matrix A	Matrix B
[[-0.0125 -0.0395 -0.046 0. 0. 0.]	[[0.]
[0.0785 0. 0.9412 0. 0. 0.]	[0.3881]
[-0.0785 0. -0.9412 1. 0. 0.]	[-0.3881]
[0. 0. 14.0504 -0.9312 0. 0.]	[-20.0888]
[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 -4.6849+0.j 2.813 +0.j -0.0065+0.0571j -0.0065-0.0571j]
--

Damping Table

[[0. +0.j 0. +0.j 4.6849+0.j 2.813 +0.j 0.0575+0.j 0.0575+0.j]
[nan+0.j nan+0.j 1. +0.j -1. +0.j 0.1131+0.j 0.1131+0.j]
[0. +0.j 0. +0.j -4.6849+0.j 2.813 +0.j -0.0065+0.0571j -0.0065-0.0571j]]]