Matrix A and Matrix B

Matrix A	Matrix B
[[1.8358 0.9412 0.1283 0. 0.005] [-1.8358 -0.9412 0.8717 0. -0.005] [-95.0237 14.0504 -7.5719 0. -0.2585] [0. 0. 1. 0. 0.] [248.3417 0. 0. 0. 0.]]	[[-0.005] [0.005] [0.2585] [-0.] [-0.]]

Matrix C and Matrix D

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

Eigen Values

[0.   8.91   3.6959 3.6959 0.6395]

Damping Table

[nan 1.   -0.3886 -0.3886 1.   ]