

May 4, 2020

12:49:23 AM

>> A = rand(5)

A =

0.3782	0.4976	0.8808	0.3787	0.6171
0.2458	0.4278	0.1600	0.9255	0.1479
0.6762	0.5678	0.0892	0.0570	0.0290
0.2613	0.6130	0.3131	0.9940	0.5725
0.9615	0.8070	0.6074	0.6670	0.0300

>> [a,b] = RayleighIteration (A)

a =

2.3788

b =

0.4711
0.3741
0.2520
0.5339
0.5381

>> [c,d] = eig (A)

c =

0.4711	0.6450	-0.6730	-0.5855	-0.0155
0.3741	-0.5022	0.2064	0.7094	0.4111
0.2520	0.3116	0.4333	0.1387	-0.5307
0.5339	-0.3424	-0.2269	-0.1318	-0.3454
0.5381	0.3426	0.5149	-0.3425	0.6556

d =

2.3788	0	0	0	0
0	0.5431	0	0	0
0	0	-0.6860	0	0
0	0	0	0.0129	0
0	0	0	0	-0.3297

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