
Case k = 1:

Condition number A (2-norm): 1.83e+01
Condition number A^TA (2-norm): 3.36e+02
2-norm residual vector: 4.79e+01

Case k = 2:

Condition number A (2-norm): 3.55e+02
Condition number A^TA (2-norm): 1.26e+05
2-norm residual vector: 4.79e+01

Case k = 3:

Condition number A (2-norm): 9.15e+03
Condition number A^TA (2-norm): 8.38e+07
2-norm residual vector: 1.03e+01

Case k = 4:

Condition number A (2-norm): 3.28e+05
Condition number A^TA (2-norm): 1.07e+11
2-norm residual vector: 1.02e+01

Case k = 5:

Condition number A (2-norm): 1.62e+07
Condition number A^TA (2-norm): 2.62e+14
2-norm residual vector: 2.50e+00

Case k = 6:

Condition number A (2-norm): 5.03e+08
Condition number A^TA (2-norm): 2.55e+17
2-norm residual vector: 2.31e+00

Case k = 7:

Condition number A (2-norm): 1.65e+10
Condition number A^TA (2-norm): 9.24e+19
2-norm residual vector: 1.22e+00

Case k = 8:

Condition number A (2-norm): 9.75e+12

Condition number A^TA (2-norm): 1.32e+22

2-norm residual vector: 3.65e-09

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