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sections augment the core content with a wide range of ideas and applications, from linear programming to the theory of norms and perturbation theory for linear systems involving matrices whose elements can all be contained in the high-speed storage of a computer. By way of theory, the book also introduces Jordan canonical forms and their applications, direct and iterative methods, linear programming, and the useful Perron-Frobenius theory and its extensions. A dedicated and active website also offers solutions to exercises as well as downloadable MATLAB and Python code and many interactive demonstrations (e.g. practice problems, exams, development of textbook examples), plus codes in MATLAB, Julia, and Python.

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