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Numerical computing with matlab

Numerical Computing with MATLAB is a comprehensive textbook that explores the fundamental concepts of numerical methods, MATLAB, and technical computing. The book's primary focus lies in the informed use of mathematical software, empowering readers to effectively utilize MATLAB's mathematical functions, recognize their limitations, and modify them as needed. To facilitate learning, the text incorporates extensive computer graphics, including interactive visualizations of numerical algorithms. A total of over 70 M-files are provided, which can be downloaded from the book's website www.mathworks.com/moler. Many exercises require readers to modify and extend these programs, further solidifying their understanding. The textbook covers a broad range of topics, such as linear equations, interpolation, zeros and roots, least squares, quadrature, ordinary differential equations, Fourier analysis, random numbers, eigenvalues and singular values, and partial differential equations. Motivating applications from various fields, including cryptography, touch-tone dialing, Google page-ranking, atmospheric science, image processing, and classical problems in physics and engineering, are also presented. This textbook is suitable for advanced undergraduate and postgraduate students across all disciplines of science and engineering. Graduate students in sciences and engineering fields will benefit from these revisions, as they update the content to reflect changes made since its initial publication in 2004.

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