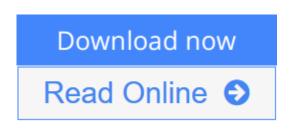# MATLAB with Applications to Engineering, Physics and Finance

By David Baez-Lopez

MATLAB with Applications to Engineering, Physics and Finance By David Baez-Lopez

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The mathematical software MATLAB® integrates computation, visualization, and programming to produce a powerful tool for a number of different tasks in mathematics. Focusing on the MATLAB toolboxes especially dedicated to science, finance, and engineering, **MATLAB® with Applications to Engineering, Physics and Finance** explains how to perform complex mathematical tasks with relatively simple programs. This versatile book is accessible enough for novices and users with only a fundamental knowledge of MATLAB, yet covers many sophisticated concepts to make it helpful for experienced users as well.

The author first introduces the basics of MATLAB, describing simple functions such as differentiation, integration, and plotting. He then addresses advanced topics, including programming, producing executables, publishing results directly from MATLAB programs, and creating graphical user interfaces. The text also presents examples of Simulink® that highlight the advantages of using this software package for system modeling and simulation. The applications-dedicated chapters at the end of the book explore the use of MATLAB in digital signal processing, chemical and food engineering, astronomy, optics, financial derivatives, and much more.

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Editorial Review

About the Author

David Báez-López is a professor in the Department of Computers, Electronics, and Mechatronics at Universidad de las Américas in Puebla, Mexico. His research interests include signal processing circuits and applications of MATLAB to mathematics teaching. Dr. Báez-López has been a member of the Mexican System of Researchers since 1985.

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