



MATLAB. Mathematics for Engineering and Experimental Sciences

By Scientific Books

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.You can use MATLAB as a powerful numerical computer. While most calculators handle numbers only to a preset degree of precision, MATLAB performs exact calculations to any desired degree of precision. In addition, unlike calculators, we can perform operations not only with individual numbers, but also with objects such as arrays. Most of the topics of classical numerical analysis are treated by this software. It supports matrix calculus, statistics, interpolation, least squares fitting, numerical integration, minimization of functions, linear programming, numerical and algebraic solutions of differential equations and a long list of further methods that we ll meet as this book progresses. The book begins by presenting the most important elements of the Matlab language. Through successive chapters it delves into topics such as continuity, differentiability and integration of functions of one and several variables. It also works in the field of differential equations, partial differential equations, systems of differential equations and difference equations. The concepts are illustrated with many examples and end of each chapter a number of exercises are solved to understand...



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