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Differential Equations with MATLAB. Examples and Exercises

By Cesar Perez Lopez

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.MATLAB is a platform for scientific computing that allows to work in virtually all areas of experimental sciences and engineering. Logically, this software allows to work in the field of differential equations presenting quite extensive capabilities. The number of commands that implements relating to differential equations Matlab is quite high and very efficient. In addition, it is possible to continue with the program methods manual resolution algebraic already known for each type of differential equation. Approximate methods of resolution of equations, systems of differential equations and differential equations in partial derivatives are also implemented. This book addresses all these materials to develop the following topics: Introduction practices to matlab Numerical calculus with matlab Symbolic calculus with matlab Matlab and maple Graphics with matlab General notation Help with commands Escape and exit to the environment ms-dos commands Matlab and programming First order differential equations. Exact equations, separate variables, homogeneous and linear equations First order differential equations Equations in separated variables Homogeneous differential equations Exact differential equations Linear differential equations Differential equations of order superior. Transformed of laplace and special...



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