

Calculus and Differential Equations with MATLAB



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Reviews

This publication is definitely not simple to begin on studying but really exciting to read. It is actually rally fascinating throgh reading time. Your life span will be enhance when you complete looking at this publication.

(Laurence Littel)

CALCULUS AND DIFFERENTIAL EQUATIONS WITH MATLAB



Narosa Publishing House, New Delhi, 2016. Soft cover. Book Condition: New. 455pp. Calculus and Differential Equations with MATLAB presents a clear, easy-to-understand on how to use MATLAB to solve calculus and differential equation problems. The book contains eleven chapters with essential materials that are taught in calculus and differential equation courses. These include: Limits, differentiation and integration Taylor, maclaurin and other infinite series Ordinary differential equations Laplace and Fourier transforms Partial differential equations Numerical and finite element methods Special functions (error, gamma, beta, Bessel, Airy, Legendre, etc.) Exact solutions are derived before showing MATLAB commands to provide the same solutions. Numerical methods are used to obtain approximate solutions when exact solutions are not available. The book contains a large number of examples and homework problems to demonstrate the capability of symbolic mathematics in MATLAB for solving calculus and differential equation problems.



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