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# Integral Calculus and Differential Equations Using Mathematica

By Cesar Perez Lopez

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. 254 x 203 mm.

Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This book provides all the material needed to work on

Integral Calculus and Differential Equations using Mathematica. It includes techniques for solving all kinds of integral and its applications for calculating lengths of curves, areas, volumes, surfaces of revolution. With Mathematica is possible solve ordinary and partial differential equations of various kinds, and systems of such equations, either symbolically or using numerical methods (Euler's method, the Runge-Kutta method, .). It also describes how to implement mathematical tools such as the Laplace transform, orthogonal polynomials, and special functions (Airy and Bessel functions), and find solutions of differential equations in partial derivatives. The main content of the book is as follows:

PRACTICAL INTRODUCTION TO MATHEMATICA 1.1  
 CALCULATION NUMERIC WITH MATHEMATICA 1.2 SYMBOLIC  
 CALCULATION WITH MATHEMATICA 1.3 GRAPHICS WITH  
 MATHEMATICA 1.4 MATHEMATICA AND THE PROGRAMMING  
 INTEGRATION AND APPLICATIONS 2.1 INDEFINITE INTEGRALS  
 2.1.1 Immediate integrals 2.2 INTEGRATION BY SUBSTITUTION  
 (OR CHANGE OF VARIABLES) 2.2.1 Exponential, logarithmic,  
 hyperbolic and inverse circular functions 2.2.2 Irrational  
 functions, binomial integrals 2.3 INTEGRATION BY PARTS 2.4  
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