



Mathematica DeMYSTiFied

By Hoste, Jim

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 Summary: Chapter 1: Getting Started running Mathematica, different platforms, notebooks, cells, input-output, basic functions, exact versus numerical approximations. Find Out More. Quiz Chapter 2: 2-D Graphing graphing functions, graphing several functions simultaneously, graphing options such as color etc., user-defined functions, parametric plots, scatter plots, animations. Find Out More. Quiz. Chapter 3: Algebraic Expressions working with algebraic expressions, polynomials, simplifying expressions, substitution, lists, tables Chapter 4: Calculus differentiation, integration, both exact and numerical. Lots of examples and lots of graphics. Find Out More. Quiz. Chapter 5: Solving Equations Using Solve and NSolve, systems of equations, root finding. Find Out More. Quiz. Chapter 6: 3-D Graphics surfaces, level sets, parametric curves in space, knots, tube plots, animations. Find Out More. Quiz. Chapter 7: Dynamical Systems--iteration, orbits, the family of logistic functions, chaos, fractals, drawing the Mandelbrot set. Possible Additional Chapters: Getting Organized using notebooks effectively Solving Differential Equations Matrices and Linear Algebra matrices, determinant, inverse, eigenvalues and eigenvectors. Lots of examples Probability and Monte Carlo Simulations Appendix Quiz Answers.



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