



Teaching Company; Mastering Differential Equations: The Visual Method (Course Number 1452) DVD

Ph.D Professor Robert L. Devaney

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24 Lectures 1What Is a Differential Equation? 2A Limited-Growth Population Model 3Classification of Equilibrium Points 4Bifurcations-Drastic Changes in Solutions 5Methods for Finding Explicit Solutions 6How Computers Solve Differential Equations 7Systems of Equations-A Predator-Prey System 8Second-Order Equations-The Mass-Spring System 9Damped and Undamped Harmonic Oscillators 10Beating Modes and Resonance of Oscillators 11Linear Systems of Differential Equations 12An Excursion into Linear Algebra 13Visualizing Complex and Zero Eigenvalues 14Summarizing All Possible Linear Solutions 15Nonlinear Systems Viewed Globally-Nullclines 16Nonlinear Systems near Equilibria-Linearization 17Bifurcations in a Competing Species Model 18Limit Cycles and Oscillations in Chemistry 19All Sorts of Nonlinear Pendulums 20Periodic Forcing and How Chaos Occurs 21Understanding Chaos with Iterated Functions 22Periods and Ordering of Iterated Functions 23Chaotic Itineraries in a Space of All Sequences 24Conquering Chaos-Mandelbrot and Julia Sets



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