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It's a thorough introduction that presumes a basic knowledge of multivariate differential calculus but is pretty well self-contained as far as linear algebra is concerned. Rigorous but readable, it provides a foundational understanding of n-dimensional linear dynamical systems and their basic exponential solution.

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Differential equations are both challenging objects at a mathematical level and crucial in many

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ways for engineers. In addition, linear algebra methods are an essential part of the methodology commonly used in order to solve systems of differential equations. This course proposes to combine a basic introduction

Differential equations and linear algebra

From the series: Differential Equations and Linear Algebra Gilbert Strang, Massachusetts Institute of Technology (MIT) Linear equations include $dy/dt = y$, $dy/dt = -y$, $dy/dt = 2ty$. The equation $dy/dt = y * y$ is nonlinear.

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Welcome! [math.mit.edu]

MAT2705 Differential Equations with Linear Algebra. Course Goals and Objectives; Elementary use of MAPLE is a required supporting tool in the entire MAT1500-1505-2500-2705 sequence of Calculus and Differential Equations with Linear Algebra for Science and Engineering majors. For use in this course, see below. Text: Differential Equations and Linear Algebra [first 7 chapters]

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MAT 2705 Syllabus | Villanova University

Learn Differential Equations: Up Close with Gilbert Strang and Cleve Moler is an in-depth series of videos about differential equations and the MATLAB® ODE suite. These videos are suitable for students and life-long learners to enjoy. About the Instructors Gilbert Strang is the MathWorks Professor of Mathematics at MIT. His research focuses on mathematical analysis, linear algebra and PDEs.

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