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(Gilbert Strang ...

Differential equations are both challenging objects at a mathematical level and crucial in many 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 to both linear algebra and differential equations.

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Differential Equations and Linear Algebra provides the conceptual development and geometric visualization of a modern differential equations and linear algebra course that is essential to science and engineering students. It balances traditional manual methods with the new, computer-based methods that illuminate qualitative phenomena – a comprehensive approach that makes accessible a wider range of more realistic applications.

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Given the current interest in introducing linear algebra earlier in curricula, the growing importance of systems of differential equations, and the natural use of linear algebra concepts in the study of differential equations, it seems best to move toward an integrated approach. FLEXIBILITY . The text is organized so as to be flexible.

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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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This complete introduction to both differential equations and linear algebra presents a carefully balanced and sound

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integration of the two topics. It promotes in-depth understanding rather than rote memorization, enabling students to fully comprehend abstract concepts and leave the course with a solid foundation in linear algebra.

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Linear ordinary differential equations (ODE); systems of linear ODE. Fourier series. We will cover the following sections of the textbook: Part 1: Linear algebra (Lay)
Chapter 1: Linear equations in linear algebra
Sections 1.1-1.5, 1.7-1.9 Chapter 2: Matrix algebra
Sections 2.1-2.3 Chapter 3: Determinants
Sections 3.1-3.3

Math 54, Linear Algebra and Differential Equations, Fall 2017

Consider the linear, second order, homogeneous, ordinary differential equation

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$$a(t) \frac{d^2y}{dt^2} + b(t) \frac{dy}{dt} + c(t)y = 0, \quad (2.1)$$

where $a(t)$, $b(t)$ and $c(t)$ are known functions. (1) If $y_1(t)$ and $y_2(t)$ satisfy (2.1), then for any two constants C_1 and C_2 , $y(t) = C_1y_1(t) + C_2y_2(t)$ (2.2) is a solution also.

Differential Equations and Linear Algebra Notes

For sophomore-level courses in Differential Equations and Linear Algebra. Extensively rewritten throughout, the Second Edition of this flexible text features a seamless integration of linear algebra into the discipline of differential equations.

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Most phenomena can be modeled not by single differential equations, but by systems of interacting differential equations. These systems may consist of many equations. In this course, we will learn how to use linear algebra to solve systems of more than 2 differential equations. We will also learn to use MATLAB to assist us.

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