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Differential equations are both challenging objects at a mathematical level and crucial in many ways for engineers. In

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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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Differential Equations and Linear Algebra by Kiryl Tsishchanka: SYLLABUS (9:30am-11:00am) SYLLABUS

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Differential Equations and Linear Algebra

From the series: Differential Equations and Linear Algebra
Gilbert Strang, Massachusetts Institute of Technology (MIT)
Linear equations include $dy/dt = y$, $dy/dt = -y$, $dy/dt = 2ty$.
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This complete introduction to both differential equations and linear algebra presents a carefully balanced and sound 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

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Math 54, Linear Algebra and Differential Equations, Fall 2017

Consider the linear, second order, homogeneous, ordinary differential equation $a(t) \frac{d^2y}{dt^2} + b(t) \frac{dy}{dt} + c(t)y = 0$, (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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Linear Algebra and Differential Equations Topics to be covered include Gauss-Jordan reduction and systems of linear equations; matrices and linear transformations; linear independence; subspaces; matrices and coordinates relative to different bases; and more

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