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(Gilbert Strang ...

Since mid-twentieth century, the traditional course in differential equations has been offered in the first or second semester of the sophomore year and has relied on only a minimum of linear algebra, most notably the use of determinants.

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Introduction. The

equation $dy/dt = y^2$ is
nonlinear. The

Fundamental Theorem
of Calculus says that
the integral inverts...

First Order Equations.

Its slope is a delta
function: zero

everywhere except

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infinite at the jump.

That complex

solution... Second ...

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and an Introduction to
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by professors as the

primary text for
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graduate level courses
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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

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where you took a
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Equations 1.1 Four

Examples : Linear

versus Nonlinear

Chapter 2: Second

Order Equations 2.1

Second Derivatives in

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Engineering Chapter 3:

Graphical and

Numerical Methods 3.2

Sources, Sinks,

Saddles, and Spirals

Chapter 4: Linear

Equations and Inverse

Matrices 4.1 Two

Pictures of Linear

Equations

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MAT 2705 Syllabus |

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Instructors Gilbert

Strang is the

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