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(Gilbert Strang ...**

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Differential Equations  
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Introduction. The  
equation  $dy/dt = y*y$  is  
nonlinear. The  
Fundamental Theorem  
of Calculus says that  
the integral inverts...  
First Order Equations.  
Its slope is a delta  
function: zero  
everywhere except  
infinite at the jump.  
That complex  
solution... Second ...

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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



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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  $dy/dt = y$ ,  $dy/dt$

$= -y$ ,  $dy/dt = 2ty$ . The

equation  $dy/dt = y * y$

is nonlinear.

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Equations 1.1 Four

Examples : Linear  
versus Nonlinear

Chapter 2: Second  
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Second Derivatives in  
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