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work. The text

emphasizes a

systems approach

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*Page 11/46*

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## Differential

### Equations An

Abstract: The field of partial

differential

equations (PDEs)

is vast in size

and diversity.

The basic reason

for this is that

essentially all

fundamental laws

of physics are

formulated in

terms of PDEs.

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An introduction

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equations What

are ordinary

differential

equations

(ODEs)? An

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differential equation (ODE)

is an equation

that involves

some ordinary

derivatives (as

opposed to

partial

derivatives ) of

a function.

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equation (ode)

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function of a  
single variable,

e.g.,  $x(t)$ ,

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several

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$v(x, y, z, t)$ . An

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Equations. Thus,

the general

solution of the

differential

equation  $y' = 2x$

is  $y = x^2 +$

$c$ , where  $c$  is

any arbitrary

constant. Note

that there are

actually

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infinitely many  
particular

solutions, such

as  $y = x^2 + 1$ ,

$y = x^2 - 7$ , or

$y = x^2 + c$ ,

since any

constant  $c$  may

be chosen.

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EQUATIONS 5. A

few minutes of  
thought reveals  
the answer: More

generally, the  
solution to any  
 $y' = Ce^{2x}$

equation of the  
form  $y' = ky$

(where  $k$  is a  
constant) is  $y =$   
 $Ce^{kx}$ . So this is

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widely available. As a consequence, the analysis of nonlinear systems of differential equations is much more accessible than it once was. The discovery of such complicated dynamical

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distinguishes  
itself from  
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through its  
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matter to  
interesting  
scenarios.

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Equations can

describe how

populations

change, how heat

moves, how

springs vibrate,

how radioactive

material decays

and much more.

They are a very

natural way to



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