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becomes. Now, to
satisfy the

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conditions $y(0)$

Systems
 $= 1$ and $y'(0)$

Solutions
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constants c_1

and c_2 must be

chosen so that.

and. Solving

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equations yields

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equation,
identification,
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the various

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all about. "By
the way there is
nothing ordinary
about
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motion to
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illustrate how
differential
equations can be
used to model
nearly
everything in
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2.3 Linear

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in y and its
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initial
condition $y(x_0)$
 $= y_0$.

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equation that
involves one or
more derivatives
of an unknown

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function is called a differential equation. The order of the highest derivative included in a differential equation defines the order of this equation.

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Introduction 1.1

Preliminaries

Definition

(Differential
equation) A

differential
equation (de) is
an equation
involving a
function and its
deriva-tives.

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Differential Equations are called partial differential equations (pde) or ordinary differential equations (ode) according to whether or not they contain partial derivatives.

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quite recent
results such as
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Situations are modelled by systems of (n) differential equations in (n) unknown functions, where $(n \geq 2)$. The next three examples illustrate physical problems that lead to systems

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of differential equations. In these examples and throughout this chapter we'll denote the independent variable by t .

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