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Solving a system of ODE in MATLAB is quite similar to solving a

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single equation, though since a system of equations cannot be defined as an inline function we must define it as an M-file.

Example 2.2. Solve the system of Lorenz equations,

$$\begin{aligned} \frac{dx}{dt} &= \sigma(x - y) \\ \frac{dy}{dt} &= \rho x - y - xz \\ \frac{dz}{dt} &= -\beta z + xy, \end{aligned} \quad (2.1)$$

Solving ODE in MATLAB

- Matlab has several different functions

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(built-ins) for the numerical solution of ODEs. These solvers can be used with the following syntax:

```
[outputs] =  
function_handle(inputs)  
[t,state] = solver(@dst  
ate,tspan,ICs,options)  
Matlab algorithm (e.g.,  
ode45, ode23) Handle  
for function containing  
the derivatives Vector  
that specifies the
```

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Solving ODEs with

MATLAB This book is
for people who need to
solve ordinary
differential equations
(ODEs), both ini- tial
value problems (IVPs)
and boundary value
problems (BVPs) as
well as delay
differential equations
(DDEs).

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2. for solving a second order ODE, we split it into 2 first order ODEs and then solve these 2 first order ODEs to get the overall solution. 3. this is the procedure that we do in Matlab by using 'function' operator. 4. function operator is used to split the second order ODE into 2 first order ODEs. the function operator is named as 'ODE_func'

Solving Second

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Solve the equation with the initial condition $y(0) = 2$. The `dsolve` function finds a value of $C1$ that satisfies the condition. `cond = y(0) == 2; ySol (t) = dsolve (ode,cond)` $ySol (t) = 2 * \exp(t^2/2)$ If `dsolve` cannot solve your equation, then try solving the equation numerically.

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Shampine, I. Gladwell,

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book is a text for a one-

semester course for

upper-level

undergraduates and

beginning graduate

students in

engineering, science,

and mathematics.

Prerequisites are a first

course in the theory of

ODEs and a survey

course in numerical

analysis, in addition to

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In order to solve the original equation we multiply through by the integrating factor to give $\varphi(x)dy + \varphi(x)f(x)y(x) = \varphi(x)g(x)$, by construction of the integrating factor $d\varphi = \varphi(x)f(x)$.

5.2 Analytical

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**methods for solving
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Editorial Reviews "The authors provide an excellent treatment of the fundamentals for solving ODEs using MATLAB. Their vast experience from research, the solution of real problems, and the teaching of this material is evident throughout the book."

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Select one: None of
MATLAB's ODE solvers
can solve differential-
algebraic equations of
index more than 1.
Solvers suffixed with 't'

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such as ode23t implement the trapezoidal rule for efficiency, but sacrifice accuracy as a result. The solver highlighted in the figure below should be the first solver to try for stiff problems, because it uses the ...

Which Of The Following Statements About Solving Or ...

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background in linear
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I found out that
Matlab's ODEs Toolbox
just doesn't support
systems of higher
order differential
equations. It was only
"recently" too that this

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language is able to solve higher order differential equations in the first place. So I was just forced to create 6, first order differential equations and the system was able to solve them. Here is the ...

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or more variables, it
still works the same.

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