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Engineers and Scientists Steven C. Chapra  
Tufts University CHAPTER 1 1.1 You are  
given the following differential equation

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with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = g - \frac{c}{m} v^2$   
 $\frac{dv}{dt} = \frac{g}{c} - \frac{1}{m} v^2$  Multiply both sides  $m \frac{dv}{dt} = \frac{mg}{c} - v^2$   
 $\frac{dv}{dt} = \frac{mg}{c} - \frac{1}{m} v^2$  Define  $a = \frac{mg}{c}$   $\frac{dv}{dt} = a - \frac{1}{m} v^2$   
Integrate separation of variables,  $\frac{dv}{a - \frac{1}{m} v^2} = dt$   
 $\frac{dv}{a - \frac{1}{m} v^2} = dt$  A table of integrals can be  
consulted to find that  $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$   
Therefore, the integration yields  $\frac{1}{2} \ln \left| \frac{a+v}{a-v} \right| = \frac{c}{mg} t + C$   
...

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The numerical integration is addressed in chapter five; different methods are used such as Trapezoidal and Simpson methods. In Chapter Six, we study some methods, used to compute the numerical...

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The Euler Method The Euler method is the simplest algorithm for numerical solution of a differential equation. It usually gives the least accurate results but provides a

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basis for understanding more sophisticated methods.

Numerical Methods for Differential Equations Matlab Help ...

$S = \text{vpasolve}(\text{eqn}, \text{var})$  numerically solves the equation eqn for the variable var. If you do not specify var , vpasolve solves

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for the default variable determined by symvar. For example, vpsolve (x + 1 == 2, x) numerically solves the equation  $x + 1 = 2$  for x. example.

Solve equations numerically - MATLAB

vpsolve

```
function p=newtonPoly(a,xData,x) %
```

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Returns value of Newton's polynomial at x. %USAGE:p=newtonPoly(a,xData,x) %  
a = coefficient array of the polynomial; %  
must be computed first by newtonCoeff.  
% xData = x-coordinates of data points. n  
= length(xData); p = a(n); for k=1:n-1; p =  
a(n-k) + (x - xData(n-k))\*p; end.

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solutions to nonlinear equations by



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Numerical analysis involves all the aspects  
of the solution of a problem right from its

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to use to the practical implementation of  
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which the application of Matlab is  
necessary:

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included by default, so neither external  
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imported nor data have to be exported to  
another plotting application. 5- It includes  
the whole known numerical methods as



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