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Steven C.
Chapra Tufts
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CHAPTER 1 1.1
You are given
the following
differential

equation with the initial condition, $v(t=0) = 0$, $c = \frac{dv}{g - d v^2} dt$ m. Multiply both sides $m \frac{dv}{g - d v^2} = c dt$. Define $a = \frac{mg}{c}$, $m \frac{dv}{v^2 - a^2} = dt$. Integrate separation of variables, $\frac{dv}{v^2 - a^2} = \frac{1}{2a} \left(\frac{1}{v-a} - \frac{1}{v+a} \right) dt$. A table of integrals can be consulted to find that $\int \frac{1}{v^2 - a^2} dv = \frac{1}{2a} \ln \left| \frac{v-a}{v+a} \right| + C$. Chapra Applied Numerical Methods With Matlab Solutions Applied Numerical Methods With Matlab 4th Edition Pdf

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1 1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, c
 $\frac{dv}{dt} + \frac{v}{2} = g$
Multiply both sides by 2
 $2 \frac{dv}{dt} + v = 2g$
Define $u = 2g - v$
 $\frac{du}{dt} = -\frac{u}{2}$
Integrate separation of variables, $\int \frac{du}{u} = \int -\frac{1}{2} dt$
 $\ln u = -\frac{t}{2} + C$
A table of integrals can be consulted to find that
 $\int \frac{1}{1 + \tanh^2 x} dx = \frac{1}{2} \ln \frac{1 + \tanh x}{1 - \tanh x} + C$
Therefore, the integration yields $v = 2g \tanh^2 \frac{t}{2} + C$

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In this unit we shall discuss 5 methods for solutions of non linear

simultaneous equation namely- Fixed Point Iteration; Bisection Method; Regula Falsi Method; Newton Raphson Method; Secant Method; First thing first, well all the codes

illustrated in this tutorial are tested and compiled on a linux machine.

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```
x &lt; 10 THEN IF x
&lt; 5 THEN x =
5 ELSE PRINT
x END
IF ELSE DO IF x &lt;
50 EXIT x = x -
5 END DO END
IF 2.2 Step 1:
Start Step 2:
Initialize sum and
count to zero Step 3:
Examine top card.
Step 4: If it says
"end of data"
proceed to step 9;
otherwise, proceed
to next step. Step 5:
Add value from top
card to sum. Step 6:
Increase count by 1.
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