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Methods With MATLAB for  
Engineers and Scientists Steven C.  
Chapra Tufts University CHAPTER 1  
1.1 You are given the following  
differential equation with the initial  
condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} + mg - cv^2 = 0$   
Multiply both sides  $m \frac{dv}{dt} + mg - cv^2 = 0$   
 $\frac{dv}{dt} + \frac{g}{c} - \frac{c}{m}v^2 = 0$  Define  $a = \frac{mg}{c}$   $\frac{dv}{dt} + a - v^2 = 0$   
Integrate separation of  
variables,  $\frac{dv}{a - v^2} = dt$  A table  
of integrals can be consulted to find  
that  $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \tanh^{-1} \frac{x}{a}$  Therefore,  
the integration yields  $\frac{1}{2a} \tanh^{-1} \frac{v}{a} = t$   
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Numerical Methods With ... where

the first term to the right of the

equal sign is the general solution

and the second is the particular

solution. For our case,  $v(0) = 0$ , so

the final solution is  $v(t) = c_1 e^{-\frac{g}{m}t} + c_2 e^{-\frac{g}{m}t} + \frac{mg}{c}$

(b) The numerical

solution can be implemented as

$$\begin{bmatrix} \dot{v} \\ v \end{bmatrix} = \begin{bmatrix} -\frac{g}{m} & 0 \\ 0 & -\frac{g}{m} \end{bmatrix} \begin{bmatrix} v \\ v \end{bmatrix} + \begin{bmatrix} \frac{mg}{c} \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} v \\ v \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} + \begin{bmatrix} -\frac{g}{m} & 0 \\ 0 & -\frac{g}{m} \end{bmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix} + \begin{bmatrix} \frac{mg}{c} \\ 0 \end{bmatrix} t$$

$$\begin{bmatrix} v \\ v \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} + \begin{bmatrix} -\frac{g}{m} & 0 \\ 0 & -\frac{g}{m} \end{bmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix} + \begin{bmatrix} \frac{mg}{c} \\ 0 \end{bmatrix} t$$

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