

# **Applied Numerical Methods With Matlab Solutions Manual**

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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,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = mg - \frac{1}{2} \rho v^2$   
 Multiply both sides  $m \frac{dv}{dt} = m g - \frac{1}{2} \rho v^2$   
 $\frac{dv}{dt} = \frac{mg}{m} - \frac{1}{2} \frac{\rho}{m} v^2$   
 Define  $a = \frac{mg}{m}$ ,  $b = \frac{1}{2} \frac{\rho}{m}$   $\frac{dv}{dt} = a - b v^2$   
 Integrate separation of  
 variables,  $\int \frac{dv}{a - b v^2} = \int \frac{1}{dt}$   
 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  $\frac{1}{2a} \ln \left| \frac{a + v}{a - v} \right| = t + C$

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 ... (b) The numerical solution can be  
 implemented as  $(0) \quad 2 \quad 19.62 \quad 68.1$   
 $12.5 \quad (2) \quad 0 \quad 9.81 \quad | = \int \Big| \Big| \Big[ \Big[ v = + -$   
 $(19.62) \quad 2 \quad 6.2087 \quad 68.1 \quad 12.5 \quad (4)$   
 $19.62 \quad 9.81 \quad | = \int \Big| \Big| \Big[ \Big[ v = + -$   
 The  
 computation can be continued and  
 the results summarized and plotted

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as: t v dv/dt 0 0 9.81 2 19.6200  
6.2087 4 32.0374 3.9294 6 39.8962  
2.4869 8 44.8700 1.5739 Applied  
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(applications) rather than theory, using MATLAB, and is intended for Numerical Methods users; hence theory is included only to inform key concepts. The new second edition feature new material such as Numerical Differentiation and DE's: Boundary-Value Problems.

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