

## Solution Manual To Applied Numerical Methods With Matlab 3rd Edition

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by Steven Chapra. Edition/Type: 4th Edition/Solution manual. Format: PDF Zip/All chapter include. Size: 57.5MB. Applied Numerical Methods with MATLAB is written for students who want to learn and apply numerical methods in order to solve problems in engineering and science.

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Solutions Manual to accompany Applied Numerical Methods With MATLAB for Engineers and Scientists Steven C. Chapra Tufts University CHAPTER 11.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = g - d v^2$  Multiply both sides by  $\frac{m}{cd}$   $\frac{dv}{m} = \frac{g}{c} - v^2 \frac{dt}{c}$  Define  $a = \frac{mg}{c}$   $\frac{dv}{a - v^2} = dt$  Integrate by separation of variables,  $\int \frac{dv}{a^2 - v^2} = \int \frac{m}{dt} dt$  A table of integrals can be consulted to find that  $\int \frac{1}{a^2 - x^2} dx = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right| + C$  ...

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The remainder of the iterations are displayed in the following table:  $\begin{matrix} i & x_i & f(x_i) & x_{i+1} & f(x_{i+1}) & x_{i+2} & f(x_{i+2}) \\ \hline 0 & 0 & 0 & 0.41421356 & -0.41421356 & 0.41421356 & -0.41421356 \\ 1 & 0.41421356 & -0.41421356 & 0.41421356 & -0.41421356 & 0.41421356 & -0.41421356 \\ 2 & 0.41421356 & -0.41421356 & 0.41421356 & -0.41421356 & 0.41421356 & -0.41421356 \end{matrix}$  Therefore, after five iterations we obtain a root estimate of -0.414022 with an

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1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $v^2 m c g dt dv = -d$ . Multiply both sides by  $m/cd$ .  $gv^2 c m dt dv c m dd = -$ . Define  $a = mg/cd$ .  $a^2 v^2 dt dv c m. d = -$ . Integrate by separation of variables,  $dt m c a v \int dv = \int d^2 -2$ .

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