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CHAPTER 1 1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $c \frac{dv}{dt} + g v^2 = m$
Multiply both sides $m \frac{dv}{m} = m g v^2 - c \frac{dv}{dt} c \frac{dv}{dt}$ Define $a = \frac{m g}{c} \frac{dv}{a^2} = \frac{m g}{c} \frac{dv}{v^2} - \frac{m g}{c} \frac{dv}{dt}$
 $v^2 - \frac{c}{m g} \frac{dv}{dt} = \frac{c}{m g} a^2$ Integrate separation of variables, $\int \frac{dv}{v^2} = \int \frac{c}{m g} a^2 dt$ A

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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 $v = c \tanh^{-1} \left(\frac{v}{c} \right) + C$...

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

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Numerical analysis – Data processing. 2. MATLAB. I. Cao, Wenwu. II. Chung, Tae-sang, 1952 – III. Title. QA297.Y36 2005 518 – dc22 2004013108 Printed in the United States of America.

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In recent years, with the introduction of new media products, there has been a shift in the use of programming languages from FORTRAN or C to MATLAB for implementing numerical methods. This book makes use of the powerful MATLAB software to avoid complex derivations, and to teach the fundamental concepts using the software to solve practical problems. Over the years, many textbooks have been written on the subject of numerical methods. Based on their course experience, the authors use a more practical approach and link every method to real engineering and/or science problems. The main benefit is that engineers don't have to know the mathematical theory in order to apply the numerical methods for solving their real-life problems. An Instructor's Manual presenting detailed solutions to all the problems in the book is available online.

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This new edition provides an updated approach for students, engineers, and researchers to apply numerical methods for solving problems using MATLAB®. This accessible book makes use of MATLAB® software to teach the fundamental concepts for applying numerical methods to solve practical engineering and/or science problems. It presents programs in a complete form so that readers can run them instantly with no programming skill, allowing them to focus on understanding the mathematical manipulation process and making interpretations of the results. Applied Numerical Methods Using MATLAB®, Second Edition begins with an introduction to MATLAB usage and computational errors, covering everything from input/output of data, to various kinds of computing errors, and on to parameter sharing and passing, and more. The system of linear equations is covered next, followed by a

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chapter on the interpolation by Lagrange polynomial. The next sections look at interpolation and curve fitting, nonlinear equations, numerical differentiation/integration, ordinary differential equations, and optimization. Numerous methods such as the Simpson, Euler, Heun, Runge-kutta, Golden Search, Nelder-Mead, and more are all covered in those chapters. The eighth chapter provides readers with matrices and Eigenvalues and Eigenvectors. The book finishes with a complete overview of differential equations. Provides examples and problems of solving electronic circuits and neural networks Includes new sections on adaptive filters, recursive least-squares estimation, Bairstow's method for a polynomial equation, and more Explains Mixed Integer Linear Programing (MILP) and DOA (Direction of Arrival) estimation with eigenvectors Aimed at students who do not like and/or do not have

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