

CHAPTER 1

1.1 We will illustrate two different methods for solving this problem: (1) separation of variables, and (2) Laplace transform.

$$\frac{dv}{dt} = g - \frac{c}{m} v$$

Separation of variables: Separation of variables gives

$$\int \frac{1}{g - \frac{c}{m} v} dv = \int dt$$

The integrals can be evaluated as

$$= -\frac{\ln\left(g - \frac{c}{m} v\right)}{c/m} = t + C$$

where C = a constant of integration, which can be evaluated by applying the initial condition to yield

$$C = -\frac{\ln\left(g - \frac{c}{m} v(0)\right)}{c/m}$$

which can be substituted back into the solution

$$= -\frac{\ln\left(g - \frac{c}{m} v\right)}{c/m} = t - \frac{\ln\left(g - \frac{c}{m} v(0)\right)}{c/m}$$

This result can be rearranged algebraically to solve for v ,

$$v = v(0)e^{-c(t-t_0)/m} + \frac{mg}{c}\left(1 - e^{-c(t-t_0)/m}\right)$$

where the first part is the general solution and the second part is the particular solution for the constant forcing function due to gravity. For the case where, $v(0) = 0$, the solution reduces to Eq. (1.10)

$$v = \frac{mg}{c}\left(1 - e^{-c(t-t_0)/m}\right)$$

Laplace transform solution: An alternative solution is provided by applying Laplace's transform to the differential equation to give

$$sV(s) - v(0) = \frac{g}{s} - \frac{c}{m} V(s)$$

Solve algebraically for the transformed velocity

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Steven H. Strogatz



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with finite strains The computational part is all new and is aimed at solving many major linear and nonlinear boundary value problems *Interactive Systems for Experimental Applied Mathematics* Melvin Klerer, 2012-12-02 Interactive Systems for Experimental Applied Mathematics is a collection of papers presented at the 1967 Association for Computing Machinery ACM Inc Symposium on Interactive Systems for Experimental Mathematics held in Washington D C in conjunction with the ACM National Meeting This book is organized into five parts encompassing 46 chapters The opening part deals with the general criteria for interactive on line systems that seem most important for the experimental solution of mathematical problems This part specifically describes the AMTRAN REDUCE EASL POSE VENUS and CHARYBDIS computer systems and languages The next two parts cover the components of interactive systems including coherent programming interactive console mathematical symbol processing message system and computer aided instruction The fourth part examines a scheme for permitting a user of conventional procedural programming languages namely FORTRAN to test actual error propagation in numerical calculations This part also describes the features of Analyst Assistance Program an on line graphically oriented conversational computing system designed to perform small nonrecurring numerical computations The concluding part presents several implications of selected computer systems the resulting problems and their proposed solutions This book is of great benefit to computer scientists and engineers mathematicians and undergraduate and graduate students in applied mathematics *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1968 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December *Nonlinear Dynamics and Chaos with Student Solutions Manual* Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors **Numerical Methods for Transient and Coupled Problems** Roland W. Lewis, 1987-05-08 This edited volume describes the latest developments in the use of numerical techniques for the solution of problems in transient and coupled systems

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