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,

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

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)

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

Laplace transform solution: An alternative solution is provided by applying Laplace 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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Table of Contents First Course In Numerical Methods Solution Manual

1. Understanding the eBook First Course In Numerical Methods Solution Manual
    - The Rise of Digital Reading First Course In Numerical Methods Solution Manual
    - Advantages of eBooks Over Traditional Books
2. Identifying First Course In Numerical Methods Solution Manual
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an First Course In Numerical Methods Solution Manual
    - User-Friendly Interface
4. Exploring eBook Recommendations from First Course In Numerical Methods Solution Manual
    - Personalized Recommendations
    - First Course In Numerical Methods Solution Manual User Reviews and Ratings
    - First Course In Numerical Methods Solution Manual and Bestseller Lists

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