

Solution Manual for:
Numerical Computing with MATLAB
by Cleve B. Moler

John L. Weatherwax*

July 25, 2007

Chapter 7 (Ordinary Differential Equations)

Problem 7.1

Defining the vector y as

$$y = \begin{bmatrix} v \\ u \\ \dot{v} \\ \dot{u} \end{bmatrix} \quad (1)$$

Then we have for its time derivative the following

$$\frac{dy}{dt} = \begin{bmatrix} \dot{v} \\ \dot{u} \\ \ddot{v} \\ \ddot{u} \end{bmatrix} = \begin{bmatrix} y_3 \\ y_4 \\ -\frac{y_2}{1+r^2} + \cos(r) \\ -\frac{y_1}{1+r^2} - \sin(r) \end{bmatrix} \quad (2)$$

Where r given in terms of components of y is

$$r = \sqrt{y_1^2 + y_2^2} \quad (3)$$

Given the initial conditions in terms of u , v , $\dot{u}$, and $\dot{v}$ we have

$$y_0 = \begin{bmatrix} 0 \\ 1 \\ 0 \\ 0 \end{bmatrix} \quad (4)$$

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Matlab Moler Solutions Manual

IM Harris



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Table of Contents Matlab Moler Solutions Manual

1. Understanding the eBook Matlab Moler Solutions Manual
 - The Rise of Digital Reading Matlab Moler Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Moler Solutions 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 Matlab Moler Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Moler Solutions Manual
 - Personalized Recommendations
 - Matlab Moler Solutions Manual User Reviews and Ratings
 - Matlab Moler Solutions Manual and Bestseller Lists
5. Accessing Matlab Moler Solutions Manual Free and Paid eBooks
 - Matlab Moler Solutions Manual Public Domain eBooks
 - Matlab Moler Solutions Manual eBook Subscription Services
 - Matlab Moler Solutions Manual Budget-Friendly Options

6. Navigating Matlab Moler Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Matlab Moler Solutions Manual Compatibility with Devices
 - Matlab Moler Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matlab Moler Solutions Manual
 - Highlighting and Note-Taking Matlab Moler Solutions Manual
 - Interactive Elements Matlab Moler Solutions Manual
8. Staying Engaged with Matlab Moler Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matlab Moler Solutions Manual
9. Balancing eBooks and Physical Books Matlab Moler Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matlab Moler Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Matlab Moler Solutions Manual
 - Setting Reading Goals Matlab Moler Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matlab Moler Solutions Manual
 - Fact-Checking eBook Content of Matlab Moler Solutions Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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