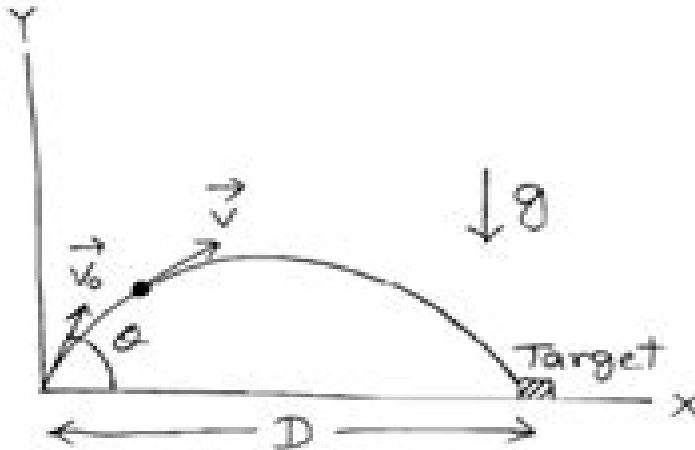


Consider the motion of a projectile in earth's gravitational field. The projectile of mass m is launched from the origin in a direction making an angle θ with the horizontal so as to hit a target placed at a distance D . There is a frictional force due to the air resistance acting on the projectile, which is opposite to the velocity direction and proportional to the square velocity. The equation

of motion from the Newton's Laws is:

$$M \left(\hat{i} \frac{d^2x}{dt^2} + \hat{j} \frac{d^2y}{dt^2} \right) = -Mg \hat{j} - \kappa v^2 \hat{v}$$

The following parameters are given: $g = 10 \text{ m/sec}^2$, $D = 1 \text{ Km}$, and the air friction parameter $\alpha = \kappa / M = 0.001 \text{ m}^{-1}$. If air friction is zero, then the analytical solution is known from elementary physics (formula given below), which you can use to check the results from your computer code. Draw appropriate graphs to discuss all key results.



- Write a computer code to solve the boundary value problem by using the shooting method.
- Determine the initial speed v_0 as a function of θ ($0 < \theta < \pi/2$) so that it hits the target.
- What is the minimum value of v_0 needed for the projectile to hit the target and what is the corresponding θ ?
- Repeat the above for $\alpha = 0.002 \text{ m}^{-1}$ and $\alpha = 0.005 \text{ m}^{-1}$.

Note: I suggested above some values for α . Determine appropriate values from your own numerical simulations so that you can see the effect of friction on motion. If friction is too high, the particle may not reach the target. If it is too low, you obtain results close to the analytical solution from elementary physics, viz., $v_0 = \sqrt{Dg / \sin 2\theta}$.

Numerical Method: Choose one of the following methods to solve the differential equations. Use a constant step size, just small enough that you can reproduce the analytical result for the initial speed v_0 accurate to within 0.001 % for the case of zero air resistance and $\theta = 45^\circ$.

- The fourth-order Runge Kutta Method to carry out the entire integration.

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Table of Contents Projectile Motion Using Runge Kutta Methods

1. Understanding the eBook Projectile Motion Using Runge Kutta Methods
 - The Rise of Digital Reading Projectile Motion Using Runge Kutta Methods
 - Advantages of eBooks Over Traditional Books
2. Identifying Projectile Motion Using Runge Kutta Methods
 - 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 Projectile Motion Using Runge Kutta Methods
 - User-Friendly Interface
4. Exploring eBook Recommendations from Projectile Motion Using Runge Kutta Methods
 - Personalized Recommendations
 - Projectile Motion Using Runge Kutta Methods User Reviews and Ratings
 - Projectile Motion Using Runge Kutta Methods and Bestseller Lists
5. Accessing Projectile Motion Using Runge Kutta Methods Free and Paid eBooks

- Projectile Motion Using Runge Kutta Methods Public Domain eBooks
 - Projectile Motion Using Runge Kutta Methods eBook Subscription Services
 - Projectile Motion Using Runge Kutta Methods Budget-Friendly Options
6. Navigating Projectile Motion Using Runge Kutta Methods eBook Formats
 - ePub, PDF, MOBI, and More
 - Projectile Motion Using Runge Kutta Methods Compatibility with Devices
 - Projectile Motion Using Runge Kutta Methods Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Projectile Motion Using Runge Kutta Methods
 - Highlighting and Note-Taking Projectile Motion Using Runge Kutta Methods
 - Interactive Elements Projectile Motion Using Runge Kutta Methods
 8. Staying Engaged with Projectile Motion Using Runge Kutta Methods
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Projectile Motion Using Runge Kutta Methods
 9. Balancing eBooks and Physical Books Projectile Motion Using Runge Kutta Methods
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Projectile Motion Using Runge Kutta Methods
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Projectile Motion Using Runge Kutta Methods
 - Setting Reading Goals Projectile Motion Using Runge Kutta Methods
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Projectile Motion Using Runge Kutta Methods
 - Fact-Checking eBook Content of Projectile Motion Using Runge Kutta Methods
 - 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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