

Classical Mechanics Solutions

Solution 1

Conservation of energy given by the sum of potential energy due to gravity and kinetic energy can be used to determine escape velocity. In the case of Earth along the potential is given by:

$$\phi(r) = -G \frac{M_E m}{r}$$

where m is the mass of the book. The book will escape if initial kinetic energy is high enough to overcome the potential at $r = R_E$. Thus

$$\frac{mv_E^2}{2} = G \frac{M_E m}{R_E} \text{ thus } v_E = \sqrt{\frac{2GM_E}{R_E}} = 11 \text{ km/s}$$

In the Earth-Moon case the potential is

$$\phi(r) = -G \frac{M_E m}{r} - G \frac{M_M m}{|R_{EM} - r|}$$

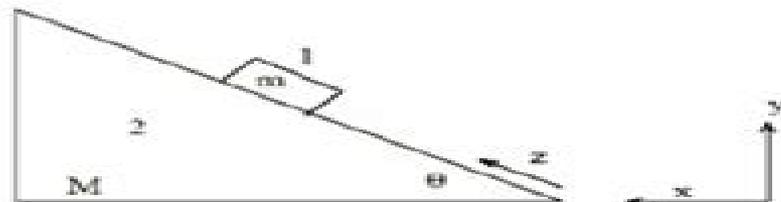
where $MM = ME$. The potential is a symmetric double-well and in order to leave the surface of the earth the kinetic energy must be high enough to overcome a saddle point right in the middle between earth and moon. Thus the condition for escape velocity is

$$\frac{mv_E^2}{2} - GM_E m \left(\frac{1}{R_E} + \frac{1}{R_{EM} - R_E} \right) = - \frac{4GM_E m}{R_{ME}}$$

This equation solved for escape velocity gives $v_E = 7.7 \text{ km/s}$.

Solution 2

Introduce the generalized coordinates as in the figure below.



The Lagrangian for this system will be given by

$$L = T_{\text{center of mass}} + T_m - V_{\text{center of mass}} - V_m \quad (1)$$

and

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Table of Contents Classical Mechanics Solutions

1. Understanding the eBook Classical Mechanics Solutions
 - The Rise of Digital Reading Classical Mechanics Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Classical Mechanics Solutions
 - 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 Classical Mechanics Solutions
 - User-Friendly Interface

4. Exploring eBook Recommendations from Classical Mechanics Solutions
 - Personalized Recommendations
 - Classical Mechanics Solutions User Reviews and Ratings
 - Classical Mechanics Solutions and Bestseller Lists
5. Accessing Classical Mechanics Solutions Free and Paid eBooks
 - Classical Mechanics Solutions Public Domain eBooks
 - Classical Mechanics Solutions eBook Subscription Services
 - Classical Mechanics Solutions Budget-Friendly Options
6. Navigating Classical Mechanics Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Classical Mechanics Solutions Compatibility with Devices
 - Classical Mechanics Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Classical Mechanics Solutions
 - Highlighting and Note-Taking Classical Mechanics Solutions
 - Interactive Elements Classical Mechanics Solutions
8. Staying Engaged with Classical Mechanics Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Classical Mechanics Solutions
9. Balancing eBooks and Physical Books Classical Mechanics Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Classical Mechanics Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Classical Mechanics Solutions
 - Setting Reading Goals Classical Mechanics Solutions
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Classical Mechanics Solutions
 - Fact-Checking eBook Content of Classical Mechanics Solutions
 - 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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