

Classical Mechanics Problem 1: Central Potential
Solution

a) Integrals of motion for a central potential $V(r)$:

$$\begin{aligned} \text{Angular Momentum} \quad L &= r v_\phi = r^2 \dot{\phi} \\ \text{Energy per unit mass} \quad E &= \frac{1}{2} (\dot{r}^2 + v_\phi^2) + V(r) = \frac{1}{2} \dot{r}^2 + V_{\text{eff}}(r) \end{aligned}$$

where v_ϕ is the tangential velocity and V_{eff} is defined as

$$V_{\text{eff}}(r) = V(r) + \frac{L^2}{2r^2}$$

If the orbit is circular, the distance of the test body from the origin is invariant: $\dot{r} = 0$, which implies that the body is always at the equilibrium-distance:

$$\frac{dV_{\text{eff}}}{dr} = 0 \quad \Rightarrow \quad \frac{dV}{dr} = \frac{L^2}{r^3} = \frac{v_\phi^2}{r} = r \dot{\phi}^2$$

then

$$\dot{\phi} = \omega_\phi = \frac{L}{r^2} = \left(\frac{1}{r} \frac{dV}{dr} \right)^{1/2}$$

so for the period we get

$$\boxed{T_\phi = \frac{2\pi}{\omega_\phi} = 2\pi \left(\frac{1}{r} \frac{dV}{dr} \right)^{-1/2}}$$

b) Write the orbit as in the statement of the problem:

$$r(t) = r_0 + \epsilon(t) \quad \text{with} \quad \frac{dV_{\text{eff}}}{dr}(r_0) = 0 \quad \text{and} \quad \epsilon^2 \ll r_0^2.$$

The energy per unit mass is now $E = \frac{1}{2} \dot{\epsilon}^2 + V_{\text{eff}}(r_0 + \epsilon)$, and since ϵ is small we may Taylor-expand the potential as

$$V_{\text{eff}}(r_0 + \epsilon) = V_{\text{eff}}(r_0) + \underbrace{\frac{dV_{\text{eff}}}{dr}(r_0)}_{=0} \epsilon + \frac{1}{2} \frac{d^2 V_{\text{eff}}}{dr^2}(r_0) \epsilon^2 + \mathcal{O}(\epsilon^3)$$

so then

$$E - V_{\text{eff}}(r_0) = \frac{1}{2} \dot{\epsilon}^2 + \frac{1}{2} \frac{d^2 V_{\text{eff}}}{dr^2}(r_0) \epsilon^2 + \mathcal{O}(\epsilon^3) = \text{const.}$$

In the above equation we readily recognize the equation of the simple harmonic oscillator with

$$\boxed{\omega_\epsilon = \left(\frac{d^2 V_{\text{eff}}}{dr^2} \right)_{r=r_0}^{1/2}}$$

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Table of Contents Classical Mechanics Problem 1 Central Potential Solution

1. Understanding the eBook Classical Mechanics Problem 1 Central Potential Solution
 - The Rise of Digital Reading Classical Mechanics Problem 1 Central Potential Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Classical Mechanics Problem 1 Central Potential Solution
 - 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Classical Mechanics Problem 1 Central Potential Solution
 - Personalized Recommendations
 - eBook Platform User Reviews and Ratings

- Classical Mechanics Problem 1 Central Potential Solution and Bestseller Lists
- 5. Accessing Classical Mechanics Problem 1 Central Potential Solution Free and Paid eBooks
 - Classical Mechanics Problem 1 Central Potential Solution Public Domain eBooks
 - Classical Mechanics Problem 1 Central Potential Solution eBook Subscription Services
 - Classical Mechanics Problem 1 Central Potential Solution Budget-Friendly Options
- 6. Navigating Classical Mechanics Problem 1 Central Potential Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Classical Mechanics Problem 1 Central Potential Solution Compatibility with Devices
 - Classical Mechanics Problem 1 Central Potential Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Classical Mechanics Problem 1 Central Potential Solution
 - Highlighting and Note-Taking Classical Mechanics Problem 1 Central Potential Solution
 - Interactive Elements Classical Mechanics Problem 1 Central Potential Solution
- 8. Staying Engaged with Classical Mechanics Problem 1 Central Potential Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Classical Mechanics Problem 1 Central Potential Solution
- 9. Balancing eBooks and Physical Books Classical Mechanics Problem 1 Central Potential Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Classical Mechanics Problem 1 Central Potential Solution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Classical Mechanics Problem 1 Central Potential Solution
 - Setting Reading Goals Classical Mechanics Problem 1 Central Potential Solution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Classical Mechanics Problem 1 Central Potential Solution
 - Fact-Checking eBook Content of Classical Mechanics Problem 1 Central Potential Solution
 - 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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