

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  $v_\phi$  is the tangential velocity and  $V_{\text{eff}}$  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  $\epsilon$  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

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

# Classical Mechanics Problem 1 Central Potential Solution

**JE Gale**



## **Classical Mechanics Problem 1 Central Potential Solution:**

*Physics Briefs*, 1994      *Foundations of Quantum Physics* Charles E. Burkhardt, Jacob J. Leventhal, 2008-12-15 This book is meant to be a text for a first course in quantum physics. It is assumed that the student has had courses in Modern Physics and in mathematics through differential equations. The book is otherwise self-contained and does not rely on outside resources such as the internet to supplement the material. SI units are used throughout except for those topics for which atomic units are especially convenient. It is our belief that for a physics major a quantum physics textbook should be more than a one or two semester acquaintance. Consequently this book contains material that while germane to the subject the instructor might choose to omit because of time limitations. There are topics and examples included that are not normally covered in introductory textbooks. These topics are not necessarily too advanced they are simply not usually covered. We have not however presumed to tell the instructor which topics must be included and which may be omitted. It is our intention that omitted subjects are available for future reference in a book that is already familiar to its owner. In short it is our hope that the student will use the book as a reference after having completed the course. We have included at the end of most chapters a Retrospective of the chapter. This is not meant to be merely a summary but rather an overview of the importance of the material and its place in the context of previous and forthcoming chapters.

Nuclear Science Abstracts, 1972      Princeton Companion to Applied Mathematics Nicholas J. Higham, Mark R. Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner, 2015-09-09 The must have compendium on applied mathematics. This is the most authoritative and accessible single volume reference book on applied mathematics. Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses. Explains key concepts, describes important equations, laws, and functions, looks at exciting areas of research, covers modeling and simulation, explores areas of application, and more. Modeled on the popular Princeton Companion to Mathematics, this volume is an indispensable resource for undergraduate and graduate students, researchers, and practitioners in other disciplines seeking a user friendly reference book on applied mathematics. Features nearly 200 entries organized thematically and written by an international team of distinguished contributors. Presents the major ideas and branches of applied mathematics in a clear and accessible way. Explains important mathematical concepts, methods, equations, and applications. Introduces the language of applied mathematics and the goals of applied mathematical research. Gives a wide range of examples of mathematical modeling. Covers continuum mechanics, dynamical systems, numerical analysis, discrete and combinatorial mathematics, mathematical physics, and much more. Explores the connections between applied mathematics and other disciplines. Includes suggestions for further reading, cross references, and a comprehensive index.

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