

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

**Ying-Ying Zheng**



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

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web computer forensics also known as digital forensics computer forensic science or cyber forensics combines computer science and legal forensics to gather digital evidence in a way that is admissible in a court of law

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web specially designed forensic software is also widely used during the whole process of computer forensic investigation this article introduces computer forensic and computer evidence introduces and compares some forensic software and summarizes its likely future development

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web the departments are forensic sciences computer engineering bioengineering electrical electronics engineering industrial engineering chemistry engineering molecular biology and genetics english molecular biology and genetics turkish a wide variety of options are offered for double major and minor