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Abstract This paper contains (handwritten) comprehensive solutions to the problems proposed in the book "Classical Mechanics", 3th Edition, by Herbert Goldstein. The solutions are limited to...

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Find the period of small radial oscillations about the circular motion. solution: The Lagrangian of the system is  $L = m \dot{r}^2 / 2 + k e^{-\alpha r}$  The cyclic coordinate is  $\theta$  and the conserved quantity is  $l = m r^2 \dot{\theta}$ . The equations of motion for the radial coordinate is  $r = l^2 m^2 r^3 k e^{-\alpha r} m r^2 [1 + \alpha r]$  The condition for circular orbit is equating  $\dot{r} = 0$ ,  $l^2 m^2 r^3 k e^{-\alpha r} = m r^2 [1 + \alpha r]$

**Solutions for Classical Mechanics - Goldstein**

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However, the same transformation with  $t$  time dilation,  $Q = \lambda q$ ,  $p = \lambda P$ ,  $t' = \lambda 2t$ , is not. Show that, however, the equations of motion for  $q$  and  $p$  for the Hamiltonian in part (a) are invariant under this transformation. The constant of motion  $D$  is said to be associated with this invariance. Sol.9.21.

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$g \omega^2 a \sin \psi \cos \alpha + \cos \psi \sin \alpha - \cos \psi \sin \alpha - \sin \psi \sin \alpha + g \omega^2 a \sin \psi \sin \alpha - \sin \psi \sin \alpha - \cos \psi + \sin \alpha \sin \psi + g = - \omega^2 \sin^2 \alpha / \omega$  The equation for  $\psi$  is again that of a simple harmonic oscillator, with frequency  $\Omega = \omega \sin^2 \alpha$ : a smaller frequency than the hoop's angular frequency.

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"Classical Mechanics" by Herbert Goldstein "Mathematical Methods of Classical Mechanics" by Vladimir Arnold Class Schedule: Tu,Th 12:00-1:20 No classes on: Tuesday, October 8 Thursday, October 10 Tuesday, November 5 Thursday, November 7 Make-up classes Mondays, 9:30-10:20 on: October 14 October 21 October 28 November 4

**Physics 316 - Classical Mechanics**

Classical Mechanics is a textbook about that subject written by Herbert Goldstein, a professor at Columbia University. Intended for advanced undergraduate and beginning graduate students, it has been one of the standard references in its subject around the world since its first publication in 1951.

**Classical Mechanics (Goldstein book) - Wikipedia**

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As the essential companion book to Classical Mechanics and Electrodynamics (World Scientific, 2018), a textbook which aims to provide a general introduction to classical theoretical physics, in the fields of mechanics, relativity and electromagnetism, this book provides worked solutions to the exercises in Classical Mechanics and. Solution Set 7 Problem Set 8, due March 10, 1999.

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