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Solutions to Problems in Goldstein, Classical Mechanics, Second Edition Homer Reid August 22, 2000 Chapter 1 Problem 1.1 A nucleus, originally at rest, decays radioactively by emitting an electron of momentum 1.73 MeV/c, and at right angles to the direction of the electron a neutrino with momentum 1.00 MeV/c.

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solutions to goldstein 35. goldstein problems 35. momentum 34. nsw 30. particle 30. axis 28. equation 28. xtd 28. orbit 28. vns 25. circular 23. cos 2 ...

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Homer Reid's Solutions to Goldstein Problems: Chapter 3 12 $\rightarrow l = mkr_0 + m2Cr_4 0 \rightarrow \dot{\theta} = l mr_2 0 = 1 mr_2 0 mkr_0 + m2Cr_4 0 = k mr_3 0 1 + mCr_3 0 k \approx k mr_3 0 1 + mCr_3 0 2k$ Then the period is $\tau = 2\pi \dot{\theta} \approx 2\pi r_3/2 0 m k 1 - mCr_3 0 2k = \tau_0 1 - C\tau_2 0 8\pi^2$ where $\tau_0 = 2\pi r_3/2 0 m/k$ is the period of circular motion in the ...

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Chapter Mon Wed Fri Homework: 1 - Aug 28 - Sep 1 : 1-Elementary Principles : Introduction 1.1 Mechanics of a particle : 1.2-1.3 Systems of particles: 1.4 Constraints Example: double pendulum: Hwk#1, Ch1: 1, 4, 5, 13, 14 (due Thu Sep 7, 5pm) Solutions: 2 - Sep 4 - Sep 8 : 1-Elementary Principles: Labor Day : 1.4-1.5 D'Alembert's principle,

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Physics 316--Classical Mechanics

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