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Solution

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special case in which bodies remain at rest) in accordance with the general principles first enunciated by Sir Isaac Newton in his *Philosophiæ Naturalis Principia Mathematica* (1687), commonly known as the *Principia*. Classical mechanics was the Classical Mechanics - University of Texas at Austin The modes of oscillation of systems near equilibrium are called the normal modes of the system. Understanding the frequencies of the normal modes of the system is crucial to design a system that can move (even if it isn't meant to). Advanced Classical Mechanics/Small Oscillations and ... The kinetic energy is given by $\frac{1}{2} I \dot{\theta}^2$

where I is the moment of inertia of the body about the rod, the potential energy is $mgL(1 - \cos \theta)$ as before, but L is now the distance of the center of mass from the axis. The equation of motion is that the rate of change of angular momentum equals the applied torque.

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1. A Heavy Symmetric Top [10 points] A heavy symmetric top ($I_1 = I_2$) with one point fixed is precessing at a steady angular velocity Ω about the vertical fixed inertial axis z .

1. The Euler angle coordinates are ... Classical Mechanics III, Problem Set 4

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about one of the ends	3. Read the questions
and $I_c = \frac{1}{12} ml^2$	carefully 4. All work
about the rod's center	and solutions must be
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 the Lagrangian, we will
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 of small oscillations
 about a stable
 equilibrium point. The
 description of motion
 about a stable
 equilibrium is one of
 the most important
 problems in physics.
 This is true for both
 classical and quantum
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 Small Oscillations a(2
 1) $1 + \cos \theta$; $2 = 1 +$
 $2EL^2 G^2 m^3 M^2$; where
 r is the distance from
 the center of force F to
 the rocket, θ is the angle

from the center of
 force, E is the rocket
 energy, L is angular
 momentum, and G is
 the gravitational
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 Molecule
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 might be interested in
 the radiation resulted
 from the intrinsic
 oscillation modes from
 these triatomic
 molecule. x_1 m M m k
 $k_2 \times 3 \times b$ b
 2. Show all work. Be
 sure to CIRCLE YOUR
 FINAL ANSWER. 3.
 Read the questions
 carefully 4. All work
 and solutions must be
 done in the answer

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 NO books, notes,
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 mechanics? Classical
 mechanics is the study
 of the motion of bodies
 (including the special
 case in which bodies
 remain at rest) in
 accordance with the
 general principles first
 enunciated by Sir Isaac
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 (1687), commonly
 known as the Principia.
 Classical mechanics
 was the

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 Problem 2: Planar
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 Solution | | q 1 q 2 a) $L = T$; V The moment of inertia for a uniform rod of length l and mass m is $I = \frac{1}{3} ml^2$ about one of the ends and $I_c = \frac{1}{12} ml^2$ about the rod's center
 The kinetic energy term we can decompose into three parts:

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PHYS 705: Classical Mechanics Small Oscillations: Example A
 Linear Triatomic Molecule 1. A Linear Triatomic Molecule
 Experimentally, one might be interested in the radiation resulted from the intrinsic oscillation modes from these triatomic molecule. x_1 m M m k x_2 x_3 x b b

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The modes of oscillation of systems near equilibrium are called the normal modes of the system. Understanding the frequencies of the

normal modes of the system is crucial to design a system that can move (even if it isn't meant to).

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$a(2l) = 1 + \cos \theta$; $2 = 1 + 2EL^2/G^2m^3M^2$; where r is the distance from the center of force F to the rocket, θ is the angle from the center of force, E is the rocket energy, L is angular momentum, and G is the gravitational constant.... Classical Mechanics QEID#13751791 February, 2013 Classical Mechanics - University of Florida Contents 1 Vectors 1 1.1 Displacements 1 1.2 Linear Coordinate Transformations ... 1.2: Damped and/or Driven Oscillators -

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Daniel Arovav

Department of Physics
University of California,
San Diego May 8, 2013

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study oscillations. 1. A
Heavy Symmetric Top
[10 points] A heavy
symmetric top (I. 1 = I.
2) with one point fixed
is precessing at a
steady angular.

velocity Ω about the
vertical fixed inertial
axis z. I. The Euler
angle coordinates are
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