

## Assignment Classical Mechanic Solution

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### Assignment Classical Mechanic Solution

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### Assignment Classical Mechanic Solution

Assignment Classical Mechanic Solution Physics assignment Classical mechanics. Problem statement. Particles with two different masses  $m$  and  $M$  are located along a linear harmonic chain of infinite length. The chain has a force constant  $k$  (see the picture below). The distance between two particles with the same mass is equilibrium and equals to  $a$ .

### Assignment Classical Mechanic Solution

Assignment-2: Classical Mechanics Solutions 1. We are given that a one dimensional particle oscillates in a symmetric potential, and that the time period of oscillation is given as a function of the particle's energy by  $T(E_0) = \sqrt{r} \sqrt{2m(E_0 + U)}$  (1.1) As explained in class, the time period as a function of energy completely

### Assignment-2: Classical Mechanics

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Assignment-1: Classical Mechanics 1. Derive the Noether charge for Galilean boosts. Show that this charge is automatically conserved if the total momentum of the system is conserved. 2. Consider the following action for a single particle in one dimension:  $S = \int_1^2 m \dot{x}^2 - kx dt$  where  $k$  is a constant. The particle undergoes periodic motion with ...

### Assignment-1: Classical Mechanics

PC235 Winter 2013 Classical Mechanics Assignment #5 Solutions #1 (5 points) JRT Prob. 5.26 An undamped oscillator has period  $\tau_0 = 1.000$ s, but I now add a little damping so that its period changes to  $\tau_1 = 1.001$ s. What is the damping factor  $\beta$ ? By what factor will the amplitude of oscillation decrease after 10 cycles?

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