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Nonlinear Oscillations and Chaos 4-1. $d \neq 0$ (a) (b) (c) $s = 0 + d = 0 + d$ m x m The unextended length of each spring is s , as shown in (a). In order to attach the mass m , each spring must be stretched a distance d , as indicated in (b). When the mass is moved a distance x , as in (c), the force acting on the mass (neglecting gravity) is $A \sin \omega t$

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Chapter 3 Non linear Oscillators

CHAPTER 3. NON-LINEAR OSCILLATORS 5 Figure 3.1: Relaxation Oscillations rst equation would say that Y has a minimum value of $-2/3$. Thus the term in is not uniformly small, and completely changes the dynamics.

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PY231: Notes on Linear and Nonlinear Oscillators, and Periodic Waves B. Lee Roberts Department of Physics Boston University DRAFT January 2011 1 The Simple Oscillator In many places in music we encounter systems which can oscillate. If we understand such a system once, then we know all about any other situation where we encounter such a system.

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