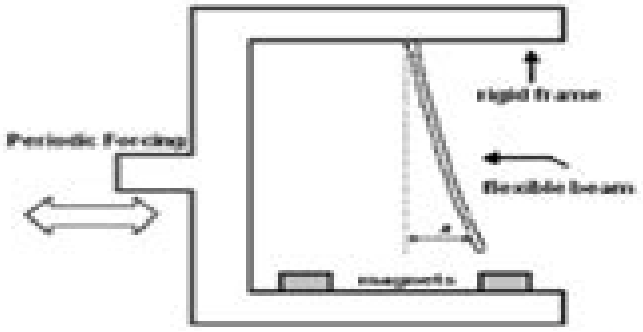
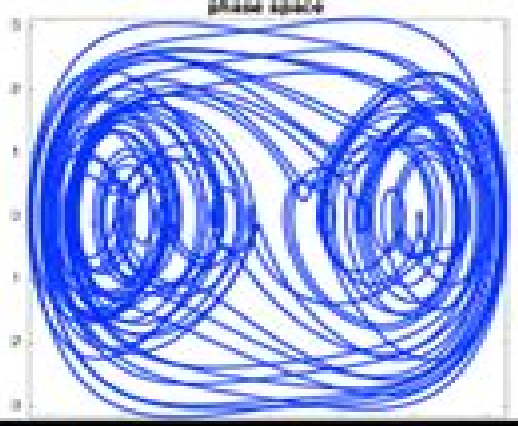
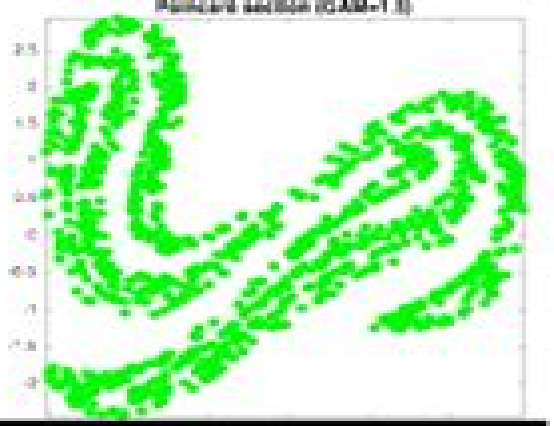
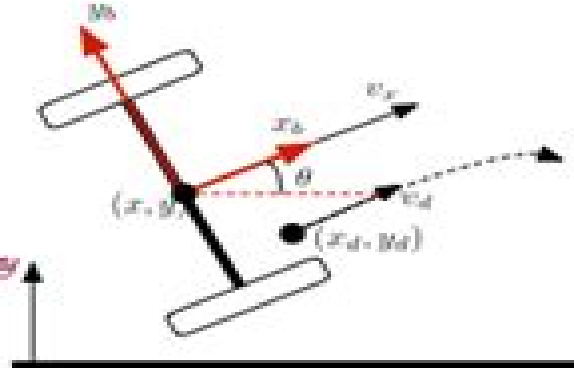


Figure 1. Mechanical interpretation of Duffing oscillator.



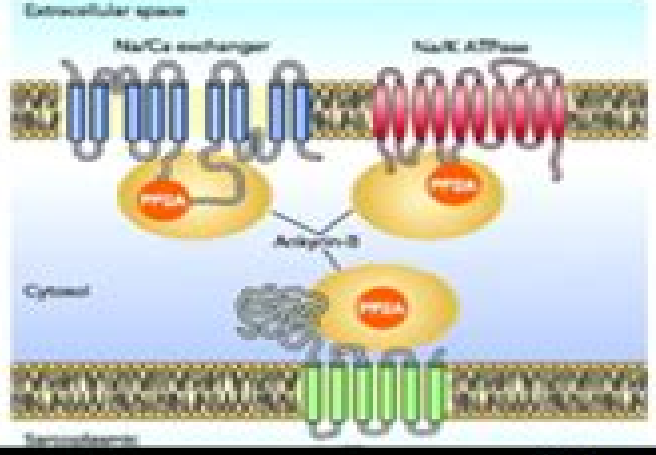


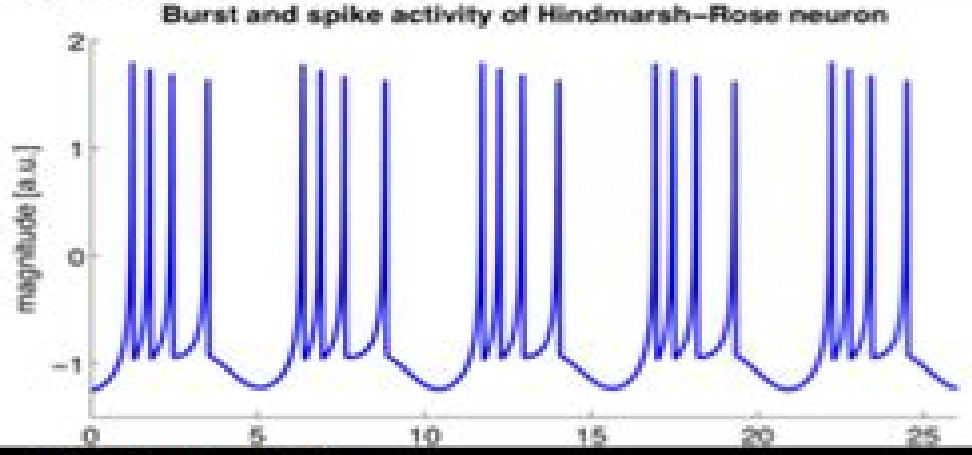
Nonlinear Oscillators



$$
\begin{aligned}
\dot{x} &= v_x \cos\theta \\
\dot{y} &= v_x \sin\theta \\
\dot{\theta} &= \omega \\
\dot{v}_x &= F \\
\dot{\omega} &= T
\end{aligned}
$$

Nonholonomic Systems





Bursting in Biological Systems

Gradiet Optimization And Nonlinear Control

Thomas Griffiths

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