

# My cool report or essay for lab X

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29 decembrie 2012

# Cuprins

## 1 Some Examples

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**Dynamical Systems - Continuous Model** (nonlinear):  $(\mathcal{U}, f, g)$  where

$$\begin{cases} x'(t) = f(t, x(t), u(t)) \\ y(t) = g(t, x(t)) \end{cases} \quad (1.1)$$

Some approximations, equations within text:  $\|x - \bar{x}\| < \varepsilon_x$ ,  $\|u - \bar{u}\| < \varepsilon_u$ ,  
 $\|y - \bar{y}\| < \varepsilon_y$