

My Dynamical Systems assignment

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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: $\|x - \bar{x}\| < \varepsilon_x$, $\|u - \bar{u}\| < \varepsilon_u$, $\|y - \bar{y}\| < \varepsilon_y$