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The nonlinear dynamic equation for a pendulum is given by $m\ddot{\theta} = -m\dot{\theta}^2 \sin \theta - k\theta$, where $l > 0$ is the length of the pendulum, $m > 0$ is the mass, $k > 0$ is a friction parameter and θ is the angle subtended by the rod and the vertical axis through the pivot point, see Figure 1.1. PSfrag replacements ? Figure 1.1 The pendulum in Exercise 1.1

Exercises in Nonlinear Control Systems

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Student Solutions Manual for \Design of nonlinear control systems :::" 4 Chapter 1 Exercise 1.2
The behavior of a dynamical system is described by the equation $\dot{x}(2) + 1.5x(1) + 0.5x_1^2 + f_2x_2 + [x(1)]^2g_1 = 2 = 0$: (1) Determine the region of \mathbb{R}^2 , such that $X = 0$ is an exponentially stable equilibrium point of the given system. Solution. Denote $x_1 = x$; $x_2 = \dot{x}(1)$, and $X = [x_1; x_2]^T$. Hence, we have

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