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The nonlinear dynamic equation for a pendulum is given by $m\ddot{\theta} = -m\sin\theta k\theta$, 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 $\dot{x}(2) + 1.5x(1) + 0.5x + \epsilon^2 x^2 + [x(1)]^2 g_1 = 2 = 0$:

(1) Determine the region of ϵ such that $X = 0$ is an exponentially stable equilibrium point of the given system. Solution. Denote $x_1 = x$; $x_2 = x(1)$, and $X = [x_1; x_2]^T$. Hence, we have