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exmôsine Fkle, Tywhere I>0 is the length of the pendulum, m>0 is the mass, k>0 is a friction parameter and 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

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point of the given system. Solution. Denote x1 = x; x2 = x(1), and X = [x1;x2]T. Hence, we have

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