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Dynamic Models Problems and Solutions for Section 2.1 1.

Write the differential equations for the mechanical systems shown in Fig. 2.41. For (a) and (b), state whether you think the system will eventually de-cay so that it has no motion at all, given that there are non-zero initial conditions for both masses, and give a reason for your answer.

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in Chapter 8, which is a fundamental tool for understanding feedback systems. Using transfer functions, one can begin to analyze the stability of feedback systems using frequency domain analysis, including the ability to reason about the closed loop behavior of a system from its open loop characteristics. This is the subject of

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