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The intent of this chapter is to expand on the design of control systems that will be implemented in a digital computer. The implementation leads to an average delay of half the sample period and to a phenomenon called aliasing, which need to be addressed in the controller design.

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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 Chapter 9, which revolves around the Nyquist stability criterion.

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