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for analyzing a digital control system. As shown in Figure L.1, the z-transform enables the engineer to combine a continuous process and digital controller into one transfer function model. As with continuous systems, we can use the transfer function model to determine important properties of the system, such

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as its stability,

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The chapter on control design in the frequency domain (Chapter 8) is, in my opinion, far the worse because it is, in fact, a chapter on CONTINUOUS control design (use of bilinear transformation from  $z$  to  $w$  and design in  $w$ ).

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