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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

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function model to determine important properties of the system, such as its stability,

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Digital Control Engineering

Digital control is a branch of control theory that uses digital computers to act as system controllers.

Depending on the requirements, a digital control system can take the form of a microcontroller to an

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ASIC to a standard
desktop computer.

Since a digital
computer is a discrete
system, the Laplace
transform is replaced
with the Z-transform.

Digital control - Wikipedia

texts, is essential for
the understanding of
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In control system analysis and synthesis we are further interested in qualitative information on how the system performs—time response quality in addition to stability. In Evans (1948, 1950) 1 W. R. Evans initiated a depictive method for

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finding the locus of the
closed-loop poles.

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converts a continuous
range of 10V to 4096
different values.

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