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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 as its stability,

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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 ASIC to a standard desktop computer.

Since a digital computer is a discrete system, the Laplace

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transform is replaced  
with the Z-transform.

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texts, is essential for  
the understanding of  
digital control system  
analysis and... then  
show that the solution  
of the analog state  
equations over a  
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switching from  
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control, avoiding... The



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z-transform is an important tool in the analysis and design of discrete-time.

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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 finding the locus of the closed-loop poles.

## **Control System Analysis - an**

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Quantization is a nonlinear effect of digital control systems. It can come from resolution limitations of transducers or of internal calculations. One example is a 12-bit analog-to-digital converter (ADC) that converts a continuous range of 10V to 4096 different values.

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algebraic equations  
involving addition,  
division, and  
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