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control system, we first need to find the discrete equivalent of the continuous portion of the system. For this technique, we will consider the following portion of the digital control system and rearrange

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M. Sami Fadali, Antonio  
Visioli, in Digital Control  
Engineering, 2009. The  
designer of a digital

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control system must be mindful of the fact that the control algorithm is implemented as a software program that forms part of the control loop. Successful practical implementation of digital controllers requires

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control, single voltage loop of digital control is analyzed and designed in the literature [ 8

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Depending on the requirements, a digital control system can take the

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form of a microcontroller to an ASIC to a standard desktop computer. Since a digital computer is a discrete system, the Laplace transform is replaced with the Z-transform. Since a digital computer has finite

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precision, extra care is needed to ensure the error in coefficients, analog-to-digital conversion, digital-to-analog co

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