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In a digital control system, the control algorithm is implemented in a digital computer. The error signal is discretized and fed to the computer by using an A/D (analog to digital) converter. The controller output is again a discrete signal which is

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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,



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the Laplace transform is replaced with the Z-transform. Since a digital computer has finite precision, extra care is needed to ensure the error in coefficients, analog-to-digital conversion, digital-to-analog co

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Designing linear control systems with MATLAB, Katsuhiko Ogata, 1994, Computers, 226 pages. Written as a companion volume to the author's Solving Control Engineering Problems with MATLAB, this indispensable guide illustrates the power of MATLAB as a tool for.

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**Discrete Time Control Systems,  
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computer with interfaces (“Discrete-Time Control” and “Digital Control” synonyms). Such a discrete-time control system consists of four major parts: 1 The Plant which is a

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The Analog-to-Digital Converter  
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and nonlinear discrete-time systems

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for use in control systems of various kinds which demand far better capabilities and performances than those provided by analog controllers. However, in order really to take advantage of the capabilities of microprocessors, it is not enough to reproduce the behavior of analog

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