

Digital Control System Analysis And Design Phillips

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Analysis of Digital Control Systems Digital Control Systems Analysis and Design is appropriate for a one semester/two-quarter senior-level course in digital or discrete-time controls. It is also a suitable reference for practicing engineers. This best-selling text places emphasis on the practical aspects of designing and implementing digital control systems.

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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 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 digital control system analysis and... then show that the solution of the analog state equations over a sampling period... also discuss bumpless switching from automatic to manual control, avoiding... The z-transform is an important tool in the analysis and design of discrete-time.

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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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