

## Digital Control Engineering

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### Digital Control Engineering

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### Digital Control Engineering

Digital Control Engineering covers the fundamental principles and applications of digital control engineering, with emphasis on engineering design. Digital controllers are part of nearly all modern personal, industrial, and transportation systems.

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Digital control involves systems whose control is updated at discrete-time instants. Discrete-time models provide mathematical relations between the system variables at these time instants. In this chapter, we develop the mathematical properties of discrete-time models that are used throughout the remainder of the text.

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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 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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An engineering approach to digital controls: emphasis throughout the book is on design of control systems. Mathematics is used to help explain concepts, but throughout the text discussion is tied to design and implementation.