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0 -Controller Digital --

D h l = Analog Plant L

FIG.3. Digital control system. DIGITAL

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181 tion of amplitude in order to convert an

analog signal to a suitable binary signal

which can then be

properly processed by a microprocessor or

computer.

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The basic structure of a typical digital control system, or a computer control system or discrete-time control system, is shown in Figure 1. The system (plant or process) under control is a continuous-time system (for example, a

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motor, electrical power
plant, or robot). The
“heart” of the
controller is the digital
computer.

Digital Control Systems

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1.0 Introduction - The
availability of
inexpensive
microprocessor-based
embedded digital
controllers has allowed
the use of digital

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control techniques in modern systems.

Digital controllers do not exhibit the drift and temperature dependence of their analog counterparts.

Digital Control of Second and Higher Order Systems

A digital controller is written and used to control both digital and analog systems and the results are compared. The

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controller is modified to use different sampling periods and the results are compared to show the performance of the digital control over the same analog system and its dependence on sample rates.

Digital Control of Second and Higher Order Systems

The vast majority of control systems built today are embedded;

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that is, they rely on built-in, special-purpose digital computers to close their feedback loops. Embedded systems are common in aircraft, factories, chemical processing plants, and even in cars—a single high-end automobile may contain over eighty different computers.

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In modern control systems, digital processors are used to perform the task of control, so it is important to establish equations that relate digital and discrete time signals. Whereas differential equations are used to represent systems with analog signals, difference equations are used for systems with discrete

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