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The other is a quantiza- 0 -Controller Digital -- D h I = Analog Plant L FIG.3. Digital control system.

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DIGITAL CONTROL SYSTEMS 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 motor, electrical power plant, or robot). The "heart" of the controller is the digital computer.

## **Digital Control Systems**

□2010 Raymond L. Barrett, Jr. Page 2 of 41 1.0 Introduction - The availability of inexpensive microprocessor-based embedded digital controllers has allowed the use of digital control techniques in modern systems. Digital controllers do not exhibit the drift and temperature dependence of their analog counterparts.

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