

KNOWLEDGE PROBE 5: SYSTEMS VIEW OF ELECTRONICS

Control Systems

Learning Objectives

1. Describe the purpose and characteristics of control systems.
 2. Distinguish between different types of control systems.
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1. A control system with no feedback is called a(n)
 - a. Automatic gain control
 - b. Closed loop system
 - c. Open loop system
 - d. Phase-locked loop
 2. The name of the input to a closed loop system that determines what the output will be maintained at is
 - a. Feedback
 - b. Output
 - c. Reference
 - d. Set point
 3. Which of the following is produced by a closed loop control system?
 - a. Automatic operation
 - b. Low power consumption
 - c. Manual control
 - d. Variable gain
 4. An AGC system adjusts the
 - a. Feedback signal level
 - b. Frequency of the output
 - c. Gain of an amplifier
 - d. Input signal level
 5. What circuit in a PLL compares the reference input to the feedback?
 - a. Filter
 - b. Input reference
 - c. Phase detector
 - d. VCO
 6. Which circuit is the output of a PLL usually taken from?
 - a. Filter
 - b. Input reference
 - c. Phase detector
 - d. VCO