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Mechatronics | (6th Edition)

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Chapter 1, Problem 5P

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Problem

Explain the function of a programmable logic controller.

Step-by-step solution

Step 1 of 2

A Programmable Logic Controller (PLC) is a microprocessor based controller used to control industrial processes and machines. The PLC has a programmable memory that can store instructions.

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Step 2 of 2

Functions of a PLC include data handling, timing, sequencing, counting and ON/OFF control. Basically, the function of a PLC is to make and execute decisions. A program of instructions is fed into the PLC. The PLC receives inputs from sensors and then the controller decides how the state of output variables such as actuators must be changed as per the instructions in the program.

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Chapter 1, Problem 9P

Compare and contrast the control system for the domestic central heating system involving a bimetallic thermostat and that involving a microprocessor.

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Chapter 1, Problem 6P

Explain what is meant by sequential control and illustrate your answer by an example.

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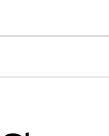
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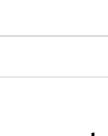
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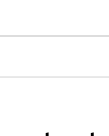
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