

Chapter 1

An Overview and Brief History of Feedback Control

1.1 Problems and Solutions

1. Draw a component block diagram for each of the following feedback control systems.

- (a) The manual steering system of an automobile
- (b) Deebbel's incubator
- (c) The water level controlled by a float and valve
- (d) Watt's steam engine with fly-ball governor

In each case, indicate the location of the elements listed below and give the units associated with each signal.

- the process
- the process output signal
- the sensor
- the actuator
- the actuator output signal
- The reference signal

Notice that in a number of cases the same physical device may perform more than one of these functions.

Solution:

- (a) A manual steering system for an automobile:

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