

Experiment 6

Investigation and analysis of feedback control system properties

Objectives

The objective of this lab is the introduction to the basic principles and tools for design and analysis of feedback systems. Some of the properties of feedback would be investigated along with applications in designing the control for specific system.

Theory

Feedback is a powerful idea which is used extensively in natural and technological systems. The principle of feedback is: Correcting actions on the difference between desired and actual performance.

The term feedback is used to refer to a situation in which two (or more) dynamical systems are connected together such that each system influences the other and their dynamics are thus strongly coupled. By dynamical system, we refer to a system whose behavior changes over time, often in response to external force.

When talking about control systems it is important to keep in mind that engineers typically are given existing systems such as actuators, sensors, motors, and other devices with set parameters, and are asked to adjust the performance of those systems. In many cases, it may not be possible to open the system (the plant) and adjust it from the inside: modifications need to be made external to the system to force the system response to act as desired.

Control Feedback Theory Solution Manual

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