

Control System Theory Feedback Engineering.pdf

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To overcome the limitations of the open-loop controller, control theory introduces feedback. A closed-loop controller uses feedback to control states or outputs of a dynamical system.

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There are two types of feedback: positive feedback and negative feedback. As an example of negative feedback, the diagram might represent a cruise control system in a car, for example, that matches a target speed such as the speed limit.

[Chapter 5 Dynamic and Closed-Loop Control - Clancy Rowley](#)

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C P f d. Plant. y. Controller. Figure 1: Typical block diagram for closed-loop control. Here, P denotes the plant, the system to be controlled, and C denotes the controller, which we design.

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