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3 Advantages of Feedback Control Systems

- System output can be made to automatically follow the

System output can be made to

automatically follow the temporal value of the input function.

- The system performance is less sensitive to variations of parameter values.

A Brief Introduction to A Brief Introduction to Control Theory

Feedback control theory Systematic approach to analysis and design

Transient response Consider sampling times, control frequency

Taxonomy of basic controls; Select controller based on desired characteristics

Predict system response to some input Speed of response (e.g., adjust to workload changes)

Oscillations (variability)

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In control theory, to describe this process, we add a summation element where we put plus or minus near the signal path to indicate whether we add it or subtract. In most cases, we tend to use negative feedback loops, which means we subtract the modify output signal from the input.

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