

## Linear Optimal Control Systems

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### Linear Optimal Control Systems

The main characteristics of modern linear control theory are the state space description of systems, optimization in terms of quadratic performance criteria, and incorporation of Kalman-Bucy optimal state reconstruction theory.

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An optimal controller, together with the controlled object, forms an optimal control system, or optimization system. Depending on the control principle, a distinction is made between open-loop systems, which are based on the principle of control in response to a disturbance; closed-loop systems, which are based on the feedback principle; and combined systems, which use both principles simultaneously.

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### Optimal Control Systems | Taylor & Francis Group

Optimal control theory is a branch of mathematical optimization that deals with finding a control for a dynamical system over a period of time such that an objective function is optimized. It has numerous applications in both science and engineering. For example, the dynamical system might be a spacecraft with controls corresponding to rocket thrusters, and the objective might be to reach the moon with minimum fuel expenditure. Or the dynamical system could be a nation's economy, with the object

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### Optimal control of discrete-time switched linear systems ...

an automatic control system that ensures functioning of the object of control that is the best, or optimal, from a particular point of view. The

characteristics of the object, and also the external disturbing influences, may change in an unforeseen manner but usually remain within certain limits.

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