Robust Control Design An Optimal Control Approach Hardcover

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Control Bootcamp: Limitations on Robustness~~Introduction to Trajectory Optimization~~ Machine Learning Control: Overview *Robust Control Design An Optimal*
The optimal control approach to robust control design differs from conventional direct approaches to robust control that are more commonly discussed by firstly translating the robust control problem into its optimal control counterpart, and then solving the optimal control problem. Robust Control Design: An Optimal Control Approach offers a complete presentation of this approach to robust control design, presenting modern control theory in an concise manner. The other two major approaches to ...

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This robust version of optimal control design is useful for the case of multi-model systems (finite-dimensional case) or systems with uncertainties such as (1)(infinite-dimensional case).

Robust optimal feedback control design for uncertain ...
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Special focus is given through this paper to the dynamic performance of an MMC-based, point-to-point HVDC system. Using an optimal guaranteed cost control theory, a robust control approach is designed in order to reject the impact of the unmodeled uncertainty, mainly in the ac side of the MMC. For this aim, a small-signal state-space linear model is derived for the control design of an advanced local controller of each MMC station.

Robust Control Design of MMC-HVDC Systems Using ...
In control theory, robust control is an approach to controller design that explicitly deals with uncertainty. Robust control methods are designed to function properly provided that uncertain parameters or disturbances are found within some set. Robust methods aim to achieve robust performance and/or stability in the presence of bounded modelling errors. The early methods of Bode and others were fairly robust; the state-space methods invented in the 1960s and 1970s were sometimes found to lack ro

Robust control - Wikipedia
However, optimal control algorithms are not always tolerant to changes in the control system or the environment. Robust control theory is a method to measure the performance changes of a control system with changing system parameters. Application of this technique is important to building dependable embedded systems.

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Optimal robust model predictive reset control design for performance improvement of uncertain linear system. ... This study aims to design a robust reset dynamic output feedback control (DOFC) for a class of uncertain linear systems. This procedure is performed as following. First, the elements of the robust DOFC are designed via the linear ...

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(ii) How can we characterize an optimal control mathematically? (iii) How can we construct an optimal control? These turn out to be sometimes subtle problems, as the following collection of examples illustrates. 1.2 EXAMPLES EXAMPLE 1: CONTROL OF PRODUCTION AND CONSUMPTION. Suppose we own, say, a factory whose output we can control. Let us begin to

An Introduction to Mathematical Optimal Control Theory ...
H ∞ (i.e. "H-infinity") methods are used in control theory to synthesize controllers to achieve stabilization with guaranteed performance. To use H ∞ methods, a control designer expresses the control problem as a mathematical optimization problem and then finds the controller that solves this optimization. H ∞ techniques have the advantage over classical control techniques in that H ...

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H-infinity and mu-synthesis techniques let you design controllers that maximize robust stability and performance. The toolbox adds robust tuning to the automated tuning capabilities of Control System Toolbox™. The tuned controllers can be decentralized with multiple tunable blocks spanning multiple feedback loops.

Robust Control Toolbox - MATLAB
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Optimal and Robust Control - cvut.cz
Textbook reference for lectures 1-13 is . Applied Nonlinear Control, Slotine and Li, Prentice-Hall 1991. Main references for lectures 14-20 are . R1 Lohmiller, W., and Slotine, J.J.E.,"On Contraction Analysis for Nonlinear Systems," Automatica, 34(6), 1998 R2 Slotine, J.J.E., "Modular Stability Tools for Distributed Computation and Control," Int. J. Adaptive Control and Signal Processing, 17(6 ...