

Read Online Fault Tolerant Control Systems Design And Practical Applications

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Fault Tolerant Control Systems Design

Provides the reader with credible demonstration of the techniques of fault-tolerant control in real systems derived from both industrial collaboration and laboratory-scale systems Gives the reader fundamental grounding in fault diagnosis and fault

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tolerance while connecting to the state-of-the-art in both theory and practice

Fault-tolerant Control Systems - Design and Practical ...

Fault-tolerant control system design and analysis against actuator and sensor failures have been treated in detail in Chapter 2 for linear and nonlinear systems. Chapter 3 is devoted to the application of fault-tolerant control strategies on a physical lab-scale winding machine. The book has clearly shown that the effects of faults can be compensated with properly designed fault-tolerant control systems.

Fault-tolerant Control Systems: Design and Practical ...

This paper describes the design of the fault tolerant control system in the actuators of a hydraulic process of four coupled tanks, which is Two-Input Two-Output (TITO) and nonlinear. A fault ...

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Fault-Tolerant Control Systems: Design and Practical ...

A Fault-Tolerant Control (FTC) system is defined as a control system with fault-tolerant capability. The main objective of the FTC is to maintain the specified operations of a system under consideration, and to give operators (or automatic monitoring systems) enough time to repair the damage or take alternative measures to avoid catastrophe (Chen and Patton, 1999).

Fault Tolerant Control - an overview | ScienceDirect Topics

A new approach is proposed for active fault tolerant control systems (FTCS), which allows one to explicitly incorporate allowable system performance degradation in the event of partial actuator fault in the design process. The method is based on model-following and command input management techniques.

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Fault Tolerant Control System Design with Explicit ...

Fault Tolerant Control Design For Polytopic LPV Systems This paper deals with a Fault Tolerant Control (FTC) strategy for polytopic Linear Parameter Varying (LPV) systems. The main contribution consists in the design of a Static Output Feedback (SOF) dedicated to such systems in the presence of multiple actuator faults/failures.

Fault Tolerant Control Design For Polytopic LPV Systems in ...

Fault-Tolerant Process Control focuses on the development of general, yet practical, methods for the design of advanced fault-tolerant control systems; these ensure an efficient fault detection and a timely response to enhance fault recovery, prevent faults from propagating or developing into total failures, and reduce the risk of safety hazards.

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Fault Tolerant Control Design For Hybrid Systems

Abstract This article presents a fault tolerant flight control system using multiple model adaptive control (MMAC). To apply this method to the aircraft, model reference adaptive control is extended... Fault tolerant flight control system design using a multiple model adaptive controller - B Jung, Y Kim, C Ha, 2009
[Skip to main content](#)

Fault tolerant flight control system design using a ...
fault tolerance. The remainder of this chapter describes several such techniques that are the elements of an overall design process for building reliable systems from unreliable components. Here is an overview of the fault-tolerance design process: 1.

Principles of Computer System Design

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A fault-tolerant design enables a system to continue its intended operation, possibly at a reduced level, rather than failing completely, when some part of the system fails. The term is most commonly used to describe computer systems designed to continue more or less fully operational with, perhaps, a reduction in throughput or an increase in response time in the event of some partial failure.

Fault tolerance - Wikipedia

This paper focuses on the fault-tolerant control (FTC) problem for an electric power steering (EPS) system subjected to stochastic sensor failures, and a novel fault-tolerant controller is proposed based on the genetic algorithm (GA). A mathematical model of the EPS system with sensor failures is first established, and the state feedback control law is solved by using linear quadratic ...

Optimal Design of Fault-Tolerant Controller for an ...

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methods do not make a large contribution in passive fault tolerant control design. Another type of fault diagnosis system uses a nonlinear dynamic model to predict system output. The model can be constructed with fuzzy logic or neural networks (Kamal et al. 2014; Yu et al. 2014). In recent years, a nonlinear observer with an on-line estimator

Fault tolerant control for nonlinear systems using sliding

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and sensor faults are accommodated within the control-law design and the integration of fault diagnosis models in the FTC systems described. Commentary is given on the recent results presented.

Fault-tolerant Control Systems | SpringerLink

This book intends to provide the readers a good understanding on how to achieve Fault Tolerant Control goal of Hybrid Systems. The book can be used as a reference for the academic research on Fault Tolerant Control and Hybrid Systems or used in Ph.D. study of control theory and engineering....

Fault Tolerant Control Design for Hybrid Systems by Hao

...

This paper studies the adaptive asymptotic tracking control problem of uncertain nonlinear systems with unknown control directions, dead-zone constraint.

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Event-triggered adaptive asymptotic tracking control of

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Furthermore, a fault-tolerant adaptive control system which includes the adaptive test signal allocator is designed based on the model reference adaptive control (MRAC) technique. The adaptive laws of the adaptive allocator and controller are derived by using a suitable Lyapunov function.

Active fault-diagnosis method using adaptive allocator and ...

The International Journal of Robust and Nonlinear Control promotes development of analysis and design techniques for uncertain linear and nonlinear systems.

Fault Diagnosis and Fault-Tolerant Control in Aerospace

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Fault Tolerance in Flight Critical Systems • Redundant System Design-Physical-Functional-Temporal-Inductive • Integrity Management -Built in Test (BIT)-System Integrity Monitors • Robust Control Law Design-Feedback Control Design-Control Reconfiguration. Physical System Redundancy

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